Official care provider
to the German Olympic teams
since 2002

BEGO USA CATALOG
2011/2012

Partners in Progress.

The BEGO corporate management
Left: Dipl.-Kfm. Christoph Weiss
Right: Dr.-Ing. Thomas Kosin

Successful together – for over 120 years

Dear Customers and Partners,

Dental technicians, dentists and implantologists all over the world place their trust in BEGO, because as one of the leading dental companies in the world, people know we can be relied on. And not without reason!

One of the main reasons is the constructive and successful partnership that you, the customer, and we, your supplier, have always enjoyed together. Unquestionably, it is this sense of pursuing a common goal, with professional dialogues conducted at eye level, that has characterised our family-run company, now in its fifth generation of management, for the past 120 years. It also forms a firm foundation for our joint future success, in a field constantly challenged by rapid transformation.

Another important reason is our determination not simply to move with these changes but to play a leading role in shaping them, in our role as a recognised pioneer in the field. Not only now, but also in the future. It is this spirit that guides us in our daily work and enables us to fulfill our goal of supplying you with innovative, reliable and economic materials, processes and equipment at all times, to ensure the care you offer your patients is always of the optimum level.

An important milestone was set by our founder, the Bremen dentist Wilhelm Herbst, with his invention of the adhesive gold filling, as an alternative to the gold foil filling, for restoring cavities. This was not to remain the only pioneering activity he would perform. Indeed, ever since our inception we have always been involved in performing methodical dental research, and thanks to the intensive cooperations we maintain with universities and scientific institutes, we hold a large number of patents and are constantly setting new technological standards. Examples include our extensive command of special materials and alloys, our development and mastery of digital processes and production techniques, and our successful integration of the findings of bionics in modern implantology.

It is all of this together that makes the quality and breadth of our ‘made in Germany’ product portfolio so unique, and not only because all of the products it contains are available to you from a single source. It also comprises a masterful level of consultancy, whenever you need it, and a unique further training programme, which also extends to the service level, all offering top quality. Moreover, it is our willingness to perform, borne out of our sense of openness and community, upon which our involvement with the Olympic Games was founded.

An unequivocal expression of our successful partnership are the 100 million patients in over 100 countries who enjoy the benefits of our products. However, we do not intend to rest on our laurels. We would be very pleased if you too would regard this catalogue as another useful aid to your daily work.

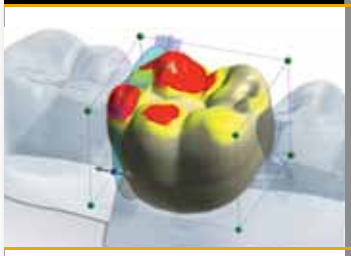
Bremen, Spring 2011

Christoph Weiss

Thomas Kosin

SOLUTIONS FROM A SINGLE SOURCE

- **BEGO Dental**
  A finely tuned and proven combination of materials, equipment and service – for the fabrication of prosthetic structures in dental laboratories.
  www.begousa.com



- **BEGO Medical**
  A CAD/CAM system that ensures enhanced added value in the long term, in all aspects concerning digital technology, today and tomorrow.
  www.bego-medical.com

- **BEGO Implant Systems**
  The right solution whatever the indication.
  Systematic and clearly structured for more than 20 years.
  www.bego-implantology.com

- **academia•dental**
  International School: passion for dentistry – this is what we feel and this is what we teach.
  www.academia-dental.de

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Please find the alphabetical index at the end of this catalog.

BEGO CAD/CAM

> Variety of materials

> Process engineering

> Materials, indications

THE “TRANSPARENT FACTORY”

– new Production Centre of BEGO Medical

Paving the way for growth:
Modern CAD/CAM systems pave the way to greater success: An ever larger number of customers use the most modern BEGO technologies and benefit from exceptional cost efficiency, diversity of material and the qualitative safety of the innovative BEGO medical devices.
The new, modern production area covers more than 1,400 m^2 and is an extensionof the existing production centre. With the new building, the stage is set for even greater growth against the backdrop of a continuously rising demand for CAD/CAM systems.

The concept denotes openness:
The new production centre has been in operation since the beginning of 2011. As of now, visitors can take a look at Production for themselves.

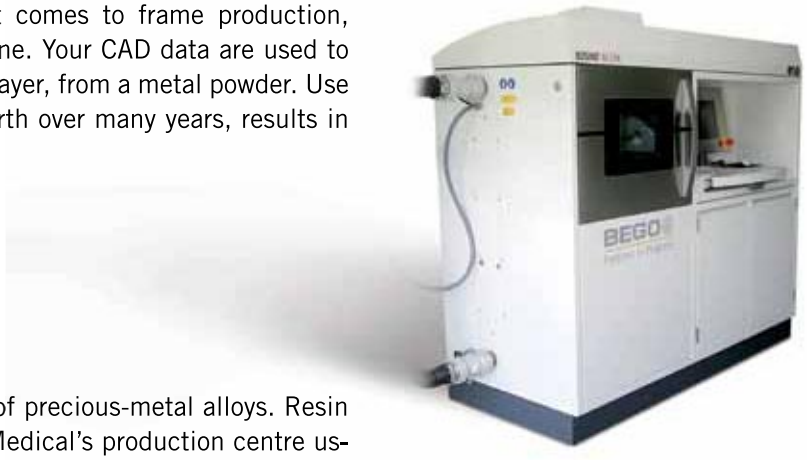
The company broke ground on 20. August 2010:
From left to right: Dr. Thomas Kosin (Technical Manager BEGO Dental), Carsten Vagt (Production Manager BEGO Medical), Christoph Weiss (Managing Partner of BEGO) and Joachim Weiss (Member of the Advisory Board).

PROCESS ENGINEERING, MATERIALS, INDICATIONS

SLM - Selective Laser Melting

SLM for Wirobond® C+

Since being invented by BEGO, Selective Laser Melting of metal frames has meanwhile reached its third generation. When it comes to frame production, BEGO SLM 3.0 offers quality that is second to none. Your CAD data are used to control a laser which builds up the frame, layer by layer, from a metal powder. Use of the alloy Wirobond® C, which has proved its worth over many years, results in unprecedented levels of safety/reliability.



CAD/Cast

for precious-metal and non-precious alloys

The CAD/Cast method offers you a wide selection of precious-metal alloys. Resin models are created from your CAD data at BEGO Medical's production centre using stereolithographic technology. They are then invested and cast in the materials of your choice using the vacuum pressure casting method. You are finally supplied with the cast frame. The benefits of this method include an unlimited selection of materials, as well as the fact that precious-metal alloys no longer need to be kept in stock, and you are only charged for the quantity actually required for production.

Wirobond® C+

for
> copings
> anatomical crowns with occlusal surfaces
> bridge frames, with occlusal surfaces if required
> telescopic crowns

CAD/Cast

Selection of alloys:
> Bio PontoStar® XL
> BegoStar®
> BegoPal® 300
> ECO d'OR
> PontoLloyd® P
> BegoCer® G
> BegoPal® S
> AuroLloyd® M

BEGO CAD Cast-Legierungen

for
> copings
> anatomical crowns with occlusal surfaces
> bridge frames, with occlusal surfaces if required
> anatomically reduced bridge frames
> telescopic crowns

IN THE BEGINNING THERE WAS GOLD

Two families by the names of Herbst and Weiss were instrumental in making the BEGO company what it is today. What was once a small firm manufacturing gold foil has grown into a globally operating dental company with branches and agencies in many important export markets, such as the USA, Canada, France, China and Australia.

Dr. h.c. Wilhelm Herbst, a dentist, laid the foundation of our company with his idea of using adhesive dental gold instead of beaten gold filling material.

When Bremer Goldschlägerei first opened its workshop in 1890, the foundation stone for the modern BEGO was laid. Back then, gold was the most important material in dentistry.
Today, precious metal continues to plays an important role in the company's extensive product mix. Successful precious-metal alloys such as Bio PontoStar® XL and InLloyd® 100 still enjoy market recognition and demand.

Gold will no doubt retain its importance as the highest-quality material available. But when it comes to material expertise, we have a lot more to offer.
In addition to high-gold alloys, BEGO supplies dental laboratories with numerous, different, non-precious alloys, e.g., Wirobond®, Wiron®, WIRONIUM® and Wironit®. These alloys are perfectly tailored to the investment materials and equipment from BEGO, and thus ensure optimal handling.

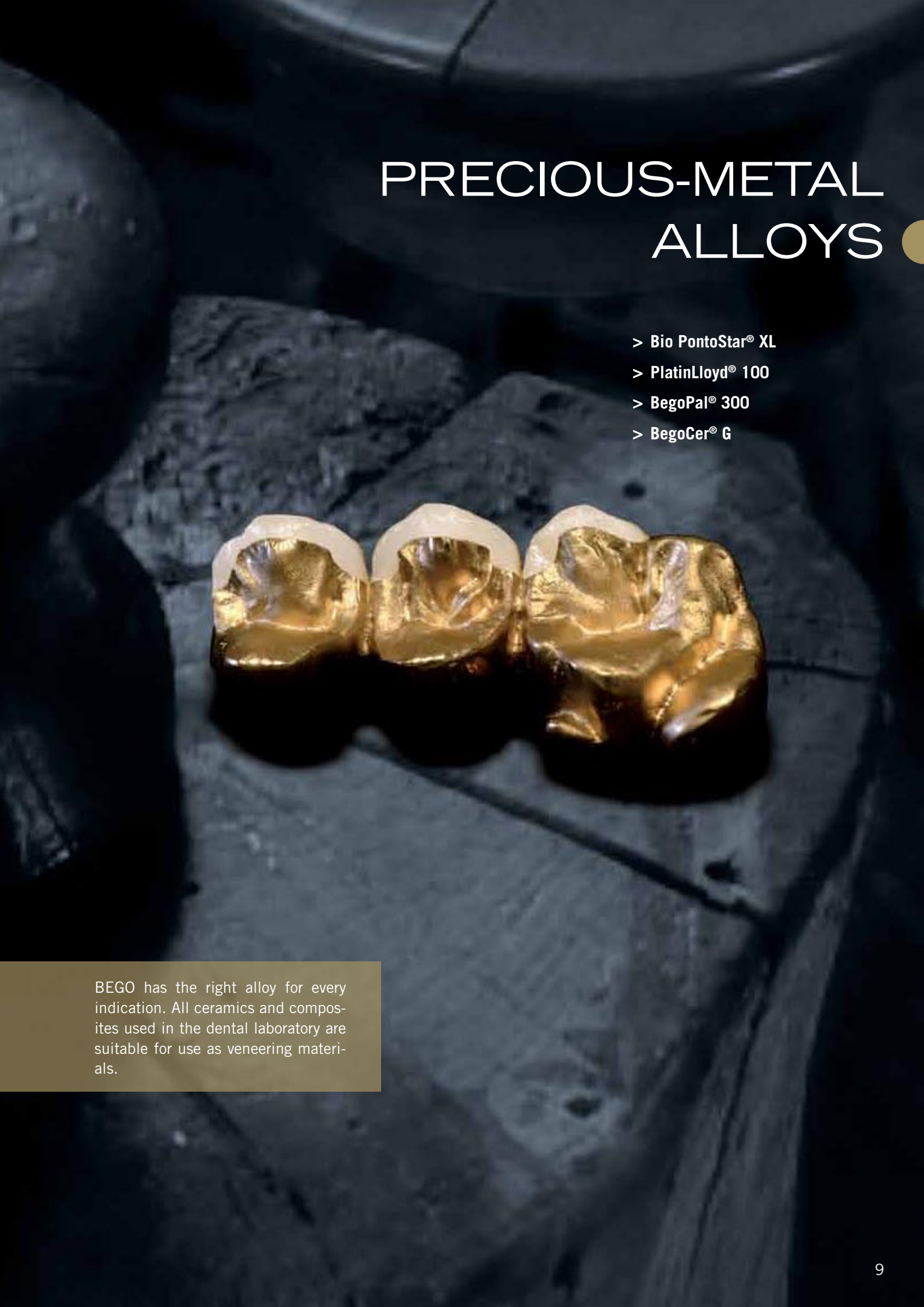
More than 100 years of experience form the basis of our expertise in the field of dental technology. Today, the Dental division supplies a wide range of high-quality products tailored to the dental technician's requirements. The decisive factors shaping the services we provide are expertise, know-how and creative company management which enables ideas and visions to be realised. This means that our business partners around the world know that they can always rely on an innovative range of high-quality products from BEGO Dental which offer optimum quality and functionality.

To complement its excellent materials, BEGO also supplies a wide range of highly specialised dental laboratory equipment. Together they form a perfect system which delivers high-quality and precise partial dentures and are also suitable for crown and bridge work.

Trust is worth its weight in gold

PRECIOUS-METAL ALLOYS

> **Bio PontoStar® XL**
> **PlatinLloyd® 100**
> **BegoPal® 300**
> **BegoCer® G**



BEGO has the right alloy for every indication. All ceramics and composites used in the dental laboratory are suitable for use as veneering materials.

FOUR TOP BEGO ALLOYS FOR

Bio PontoStar® XL

Indications: 1, 2, 3, 4, 5, 6

Extra hard alloy with a high gold content for metal-ceramic work, yellow, containing no palladium or copper, with increased resistance to thermal distortion in comparison to alloys having a similar composition, broad range of indications, with biocertificate (Available at www.bego.com).

Alloy characteristics:		
Composition in % by mass: Au 86.0 · Pt 11.5 · Zn 1.6 · In, Rh, Fe each < 1		
Type (ISO 22674)*		4
Density (spec. gravity) [g/cm³]		18.8
Coefficient of expansion [10^{-6} K^{-1}] 77 – 932 °F / 25 – 500 °C 68 – 1112 °F / 20 – 600 °C		 14.2 14.4
Preheating temperature		1562 °F / 850 °C
Casting temperature		approx. 2318 °F / 1270 °C
Melting interval liquidus-solidus		1913 – 2012 °F / 1045 – 1100 °C
Modulus of elasticity [GPa]		approx. 100
Elongation limit ($R_{p0,2}$) [MPa]	after casting after firing heat-treated	420 500 510
Ductile yield (A_5) [%]	after casting after firing heat-treated	10 7 6
Vickers hardness (HV5)	after casting after firing heat-treated	185 215 220
Mean grain size [µm]		20
BEGO Colour Code		yellow 5
Solder (cadmium-free) before firing after firing		 PontoStar®-G solder (1886 °F / 1030 °C) BEGO-GOLD solder I (1490 °F / 810 °C)
Flux		Minoxyd or Fluxsol
REF		**61140**
Laser welding wire Bio PontoStar®-XL wire ∅ 0.35 mm		 61167

CE 0197

Conforms with ISO 9693 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

PlatinLloyd® 100

Indications: 2, 3, 4, 6

Extra hard alloy with a high gold content for crowns and bridges, golden, containing no palladium, broad range of indications, with biocertificate (Available at www.bego.com).

Alloy characteristics:		
Composition in % by mass: Au 72.0 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Zn, Ir each < 1		
Type (ISO 22674)*		4
Density (spec. gravity) [g/cm³]		15.5
Preheating temperature		1292 °F / 700 °C
Casting temperature		approx. 1922 °F / 1050 °C
Melting interval liquidus-solidus		1652 – 1724 °F / 900 – 940 °C
Modulus of elasticity [GPa]		approx. 95
Elongation limit ($R_{p0.2}$) [MPa]	soft after casting heat-treated	340 500 510
Ductile yield (A_5) [%]	soft after casting heat-treated	40 15 14
Vickers hardness (HV5)	soft after casting heat-treated	155 220 225
Mean grain size [µm]		25
BEGO Colour Code		yellow 3
Solder (cadmium-free)		BEGO-GOLD solder I (1490 °F / 810 °C) BEGO-GOLD solder II (1409 °F / 765 °C) Pre-flux U Goldlot (1490 °F / 810 °C)
Flux		Minoxyd
Heat treatment		752 °F / 400 °C 15 min.
Soft annealing		1382 °F / 750 °C 10 min. (then quenching in water at 68 °F / 20 °C)
REF		**61020**
Laser welding wire PlatinLloyd®-100 wire ∅ 0.35 mm		 61152

CE 0197

Conforms with ISO 22674 for use as crown and bridge alloy

Indications:
1 = Inlays
2 = Multi-surface fillings, crowns, small bridges
3 = Partial dentures
4 = Bridges, milled telescopes, bars and attachments
5 = Crown and bridge frames for metal-ceramics
6 = Superstructures

ALL INDICATIONS

BegoPal® 300

Indications: 2, 3, 4, 5, 6

Extra hard palladium-based alloy with a small content of gold, for metal-ceramics, containing no copper, favorable in price, with bio-certificate (Available at www.bego.com).

Alloy characteristics:		
Composition in % by mass: Au 6.0 · Pd 75.4 · Ag 6.2 · In 6.3 · Ga 6.0 · Ru < 1		
Type (ISO 22674)*		4
Density (spec. gravity) [g/cm³]		11.0
Coefficient of expansion [10^{-6} K^{-1}]		
77 – 932 °F / 25 – 500 °C		13.8
68 – 1112 °F / 20 – 600 °C		14.0
Preheating temperature	1562 – 1742 °F / 850 – 950 °C	
Casting temperature	2534 – 2624 °F / 1390 –1440 °C	
Melting interval liquidus-solidus	2147 – 2408 °F / 1175 – 1320 °C	
Modulus of elasticity [GPa]		approx. 135
Elongation limit ($R_{p0.2}$) [MPa]	soft	450
	after firing	520
	heat-treated	540
Ductile yield (A_5) [%]	soft	30
	after firing	28
	heat-treated	25
Vickers hardness (HV5)	soft	220
	after firing	240
	heat-treated	260
Mean grain size [µm]		35
BEGO Colour Code		white 8
Solder (cadmium-free)		
before firing		BegoStar® solder (2057 °F / 1125 °C)
after firing		BEGO-GOLD solder I (1490 °F / 810 °C)
Flux		Minoxyd or Fluxsol
REF		**61105**
Laser welding wire BegoPal® 300 wire ∅ 0.35 mm		61165

CE 0197

Conforms with ISO 9693 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BegoCer® G

Indications: 2, 3, 4, 5, 6

Extra hard alloy with reduced gold content, for metal-ceramics, containing no copper, with bio-certificate (Available at www.bego.com).

Alloy characteristics:		
Composition in % by mass: Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru		
Type (ISO 22674)*		4
Density (spec. gravity) [g/cm³]		14.3
Coefficient of expansion [10^{-6} K^{-1}]		
77 – 932 °F / 25 – 500 °C		13.7
68 – 1112 °F / 20 – 600 °C		13.9
Preheating temperature		1562 °F / 850 °C
Casting temperature	2462 – 2732 °F / 1450 – 1500 °C	
Melting interval liquidus-solidus	2111 – 2390 °F / 1155 – 1310 °C	
Modulus of elasticity [GPa]	approx. 125	
Elongation limit ($R_{p0.2}$) [MPa]	soft	475
	after casting	520
	heat-treated	550
Ductile yield (A_5) [%]	soft	19
	after casting	16
	heat-treated	12
Vickers hardness (HV5)	soft	190
	after casting	220
	heat-treated	230
Mean grain size [µm]		40
BEGO Colour Code		white 8
Solder (cadmium-free)		
before firing		BegoStar® solder (2057 °F / 1125 °C)
after firing		BEGO-GOLD solder (1490 °F / 810 °C)
Flux		Minoxyd or Fluxsol
REF		**61097**
Laser welding wire BegoCer® G wire ∅ 0.35 mm		61164

CE 0197

Conforms with ISO 9693 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

*The various types are shown on page 12

Corresponding product

BellaStar XL premium investment · REF: 54362 (Page 14 and 35)
A premium investment, speed or conventional heating, extremely fine grained with excellent fit guarantees reliable processing.

BEGO-GOLD – FOCUSING ON THE

Alloy	Bio certificate	Standards ISO	REF	Type acc. to ISO 22674	BEGO Colour code No.	Composition % by mass (x = <1 %)								Other elements (<1 %)	Indications	Density [g/cm³]	Vickers hardness (HV 5)	
						Au	Pt	Pd	Ag	Cu	Sn	Zn	In				soft	after casting/firing
Alloys for conventional ceramics																		
Bio PontoStar®XL	✓	ISO 9693 + ISO 22674	61140	4	5	86,0	11,5	–	–	–	–	1,6	x	Rh · Fe	1, 2, 3, 4, 5, 6	18,8	155	215
Bio PontoStar®	✓	ISO 9693 + ISO 22674	61104	4	5	87,0	10,6	–	–	–	–	1,5	x	Rh · Mn Ta	1, 2, 3, 4, 5, 6	18,8	160	225
BegoCer®G	✓	ISO 9693 + ISO 22674	61097	4	8	51,5	_	38,4	–	–	–	–	8,7	Ru · Ga 1,3	2, 3, 4, 5, 6	14,3	190	220
BegoPal®300	✓	ISO 9693 + ISO 22674	61105	4	8	6,0	–	75,4	6,2	–	–	–	6,3	Ru · Ga 6,0	2, 3, 4, 5, 6	11,0	220	240
Alloys for high expanding, low fusing ceramics																		
BegoLloyd®LFC	✓	ISO 9693 + ISO 22674	61116	4	5	62,8	3,0	5,7	25,0	–	–	2,2	1,2	Ru	2, 3, 4, 5, 6	14,6	150	225
BegoStar®LFC	✓	ISO 9693 + ISO 22674	61107	4	8	x	–	35,0	58,9	–	1,0	4,0	–	Zr · Ru	1, 2, 5, 6	10,8	175	200
Alloys for crowns and bridges																		
InLloyd®100	✓	ISO 22674	61120	2	2	78,1	3,9	–	15,5	–	–	2,4	–	Ir	1, 2	16,5	120	150
PlatinLloyd®100	✓	ISO 22674	61020	4	3	72,0	3,5	–	13,7	9,8	–	x	–	Ir	2, 3, 4, 6	15,5	155	220
PlatinLloyd®M		ISO 22674	61009	4	4	70,0	5,0	1,0	11,7	10,0	–	1,9	x	Re	2, 3, 4, 6	15,7	190	270
BegoLloyd®PF	✓	ISO 22674	61041	4	4	62,5	4,3	–	22,0	9,1	–	1,9	–	Ir	2, 3, 4, 6	14,5	175	240
BegoLloyd®M		ISO 22674	61036	4	4	65,0	x	3,1	19,1	10,0	–	2,0	x	Ir	2, 3, 4, 6	14,7	155	235
BegoLloyd®60		ISO 22674	61037	4	4	60,0	0,5	5,5	21,0	10,0	–	2,1	x	Ir	1, 2, 3, 4, 6	14,4	160	260
Midigold		ISO 22674	61082	4	5	49,5	–	3,4	35,0	10,0	–	–	2,0	Ru	1, 2, 3, 4, 6	12,98	120	235
Gold-EWL®H		ISO 22674	61071	4	8	2,0	–	27,5	58,5	11,0	–	1,0	–	–	1, 2, 3, 4	11,0	150	180

Types acc. to ISO 22674

Type 2: Indicated for fixed single restorations, e.g. crowns or inlays, where the number of surfaces is not limited.
Type 3: Indicated for fixed, multi-unit prosthetic restorations, e.g. bridgework.
Type 4: Indicated for prosthetic restorations or sections thereof with thin cross-sections exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, long-span bridgework or bridges with small cross-sections, bars, retainers, implant-supported superstructures.

Indications

1 = Inlays
2 = Onlays
3 = Partial dentures
4 = Bridges, milled telescopes, bars and attachments
5 = Crown and bridge frames for metal ceramics
6 = Superstructures

CE 0197

BEGO-GOLD alloys and solders are medical divices in accordance with Regulation 93/42 EEC. According to Annex IX, the products are classified in Class IIa.

You can obtain a detailed table from us (please state REF 82104).

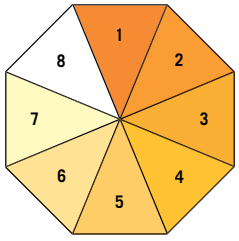
ESSENTIALS

	Elongation limit (R_p 0,2) [MPa]			Ductile yield (A_5) [%]			Modulus of elasticitiy approx.	Average grain size	Melting interval	Casting temperature approx.	Preheating temperature	CTE	Oxide firing			Laser welding/ Identically welding material available
hardened	soft	after casting/firing	hardened	soft	after casting/firing	hardened	[GPa]	[µm]	[°C]	[°C]	[°C]	25-500 °C (20-600 °C) [10^{-6} K^{-1}]	°C	min	with vacuum	
220	330	500	510	18	7	6	100	20	1045–1100	1270	850	14,2 (14,4)	900	5	✓	✓
235	380	550	560	11	8	6	100	20	1040–1150	1270	850	14,2 (14,4)	950	10	–	✓
230	475	520	550	19	16	12	125	40	1155–1310	1450–1500	850–950	13,7 (13,9)	960	2–3	–	✓
260	450	520	540	30	28	25	135	35	1175–1320	1390–1440	850–950	13,8 (14,0)	960	2–3	–	✓
225	330	575	575	23	13	6	105	25	985–1060	1250	700	16,4 (16,9)	800	5	✓	✓
–	–	400	–	–	12	–	113	40	1080–1150	1300	700	16,6 (16,8)	780	10	–	
150	200	245	245	26	12	12	90	40	935–1005	1100	700	–	–	–	–	✓
225	340	500	510	40	15	14	95	25	900–940	1050	700	–	–	–	–	✓
285	440	650	690	25	11	8	98	20	880–940	1020	700	–	–	–	–	✓
245	370	620	640	25	10	9	105	20	870–915	1030	700	–	–	–	–	✓
240	350	560	570	50	23	21	102	30	860–940	1050	700	–	–	–	–	
260	370	600	600	35	20	20	103	30	870–930	1050	700	–	–	–	–	
245	225	620	650	15	5	3	93	50	830–920	1030	700	–	–	–	–	
205	330	750	820	39	7	5	108	60	930–1030	1230	700	–	–	–	–	

The specified data are standard values. Subject to change.

The BEGO-GOLD Colour code

The areas of colours within the characteristic fields approximately correspond to the intensity of the alloy colours.



Corresponding product

Bellavest® SH

Shock-Heat, rapidly or conventionally heatable precision casting investment material for crowns and bridges, also made of pressed ceramics

> Phosphate-bonded universal investment provides familiar, clear handling properties ideal for all C + B needs

> Easy to use with the special mixing liquid BegoSol® HE, providing maximum expansion during all applications using only one liquid

> Precise expansion control, fine creamy consistency ensures reliable processing and consistent quality for a range of indications from pressable ceramics to telescopic restorations fabricated using non-precious alloy

> Long working time of 5 minutes enables relaxed working

> Extremely smooth casting surfaces result in a good fit and savings in finishing time due to minimal preparation times

> Hardens with a high edge strength and can be easily devested, which means a saving in time and economical use of blasting material (order, e.g. Korox 110 µm at the same time: REF 46044, Page 82) for the user

> Guaranteed shelf life of 24 months in sealed preportioned bags ensuring consistent quality over a long period

> Perforated bag with tear strip provides clean, immediate and easy use

Physical data:	
Mixing liquid	**BegoSol® HE**
Processing time at 68 °F / 20 °C	approx. 4.5 - 5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	approx. 10 min.
Compressive strength after 2 hours [MPa]	4.2 - 5.1
Linear thermal expansion [%]	0.85

Availability:	Weight	Pieces/Unit	**REF**
Bellavest® SH			
1 carton	25 lbs / 11 kg	100/100-g bags	54813
1 carton	28 lbs / 12.8 kg	80/160-g bags	54253
The packs do not contain any mixing liquid.			
1 carton with 2 litres liquid	28 lbs / 12.8 kg	80/160-g bags	54252
1 carton with 2 litres liquid	30 lbs / 13.75 kg	100/100-g bags	54804
Accessories:			
BegoSol® HE mixing liquid 1 bottle		Litres 1 l	51095
1 canister		5 l	51096
(BegoSol® HE is sensitive to frost.)			

DIN EN ISO 15912

You will find the detailed brochure as a download file at www.begousa.com.

BellaStar XL

The premium investment for crowns and bridges – ideal for precious metal alloys

Extremely fine grain for excellent fitting accuracy. Ideal for precious-metal alloys, but also optimally applicable for non-precious alloys. Fluid to creamy consistency with optimal flow properties. Reliable expansion control with BegoSol® K. Outstanding deflasking characteristics, extremely smooth casting surfaces. For conventional or shock-heat processing, set temperature can be final temperature. Can be processed with or without ring, mould sizes freely selectable. Bella Star XL gives the technician flexibility, reliability and relaxed working with excellent precision.

Physical data:	
Mixing liquid	BegoSol® K
Processing time at 68 °F / 20 °C	approx. 3.5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	7.5 min.
Compressive strength [MPa]	5.5
Linear thermal expansion [%]	1.1
Availability:	**REF**
1 carton 10 lbs / 4.5 kg = 75 pieces 60-g bags	54360
1 carton 20 lbs / 9 kg = 100 pieces 90-g bags This pack does not contain any mixing liquid.	54376
1 carton 28 lbs / 12.7 kg = 100 pieces 90-g bags with 2 litres liquid	54372
Accessories:	
BegoSol® K mixing liquid 1 bottle = 1 l	51120
1 canister = 5 l	51121
(BegoSol® K is sensitive to frost.)	
Brochure	81701

DIN EN ISO 15912

WORK PREPARATION

- **Paraflex**
  Precision parallelometer
- **Blow-off nozzle**
- **Measurement set**
- **BegoStone plus**
  Super-hard plaster
- **BegoForm®**
  Refractory stump material
- **Model base former**
- **Hand saw blades**

Proven materials and techniques are the basis for successful dental restorations. This principle is exemplified by the super-hard plaster BegoStone and the precision parallelometer Paraflex.

Paraflex

Precision surveyor with detachable table

> Precision bearings on all hinges for displacement-free, exact positioning

> Two horizontal hinges (double hinged arm) and two vertically adjustable working positions ensure the maximum possible surveying alternatives

> Solid base plate for reliable positioning during working

> Detachable precision model table with secure model lock

> Model holder plate with defined zero position for quick return to the original position

> Use of a second working table possible

> Wide range of basic equipment for immediate use

Technical data:	
Height	13" / 315 mm
Width	8" / 195 mm
Depth	8" / 195 mm
Weight	7 lbs / 3.25 kg

Availability:	Unit	**REF**
Paraflex Basic device with model table, collet chuck 2.35 mm, collet chuck 3 mm, set of measuring tools	1 piece	22200
Accessories:		
Model table	1 piece	15606
Set of tools (shaft diam. 3 mm) with 10 graphite refills		22160
Graphite refills	1 pack = 10 pcs.	22150
Brochure		81733

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Blow-off nozzle

The blow-off nozzle is a rugged hard rubber aid that has been tried and tested for years.

Availability:	REF
1 piece	21700

Measurement set according to Ney

Application of the measuring instruments in connection with partial denture technique for model analysis, measuring undercuts and marking the equator.

Availability:	REF
Set of tools, shaft ∅ 3 mm; 1 set consisting of undercut measuring instruments:	22160
① .0098" / 0.25 mm, 1 piece	22145
② .0019" / 0.50 mm, 1 piece	22146
③ .0029" / 0.75 mm, 1 piece	22147
④ Locating pin, 1 piece	22148
⑤ Wax scraper, 1 piece	22149
⑥ Refill holder, 1 piece	22163
Graphite refills, 1 pack	22150

BegoStone plus

Super hard plaster

- Type 4 super hard plaster for making models for inlays, crowns, bridges and partial dentures
- Super hard plaster with controlled batch constancy for reproducible results every time
- Outstanding flow properties enable bubble-free pouring
- Tixotropic plaster: can be built up immediately and already has outstanding flow properties when subjected to light vibrations
- High degree of batch constancy thanks to complete quality management
- Maximum reproduction accuracy with all commonly used duplicating materials
- Extremely high bending tensile strength: considerable resistance against breaking-off of teeth and stumps
- Abrasion-resistant thanks to high degree of hardness
- Ideal linear expansion of 0.09 %
- Very smooth model surfaces
- Advantageous processing time of around 5 minutes
- Preparation limits and fine details can be seen particularly clearly thanks to advantageous colour, ivory

The physical data:	
Color	ivory 35
Soaking time	15 seconds
Processing time at 68 °F / 20 °C	approx. 5 minutes
Setting time (Vicat test)	approx. 10 minutes
Compressive strength after 1 hour [MPa]	60
Bending tensile strength (DIN) after 24 hours [MPa]	12
Setting expansion [%]	0.09
Hardening time	approx. 30 minutes
Hardness after 1 hour [MPa]	approx. 220
Availability:	**REF**
1 tub = 12 kg	54811
Brochure	81360

DIN EN ISO 6873

You will find the detailed brochure as a download file in the Service section at www.bego.com.

BegoForm®

Refractory die material for ceramic inlays, onlays and veneers

Dies have extremely firm edges and are smooth and precise. The special ceramic materials supplied by well-known manufacturers can be used.

Availability:	REF
1 box, 40 30-g bags = 1.2 kg, with 1 measuring syringe, 250 ml of mixing liquid	52785
Accessories:	
BegoForm® mixing liquid, 1 bottle = 250 ml	52786
Special mixing liquid (frost sensitive) (Anti-freeze optimization up to -14 °F/-10 °C)	

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Model base former

Ensures clean, smooth model base without grinding. Two sizes are available for both the upper and lower jaw.

Availability:	REF
U1, 1 set = 5 pcs.	52641
U2, 1 set = 5 pcs. (U1, U2 = Lower jaw)	52642
O1, 1 set = 5 pcs.	52661
O2, 1 set = 5 pcs. (O1, O2 = Upper jaw)	52671
Sorted, 1 pack = for each piece	52630

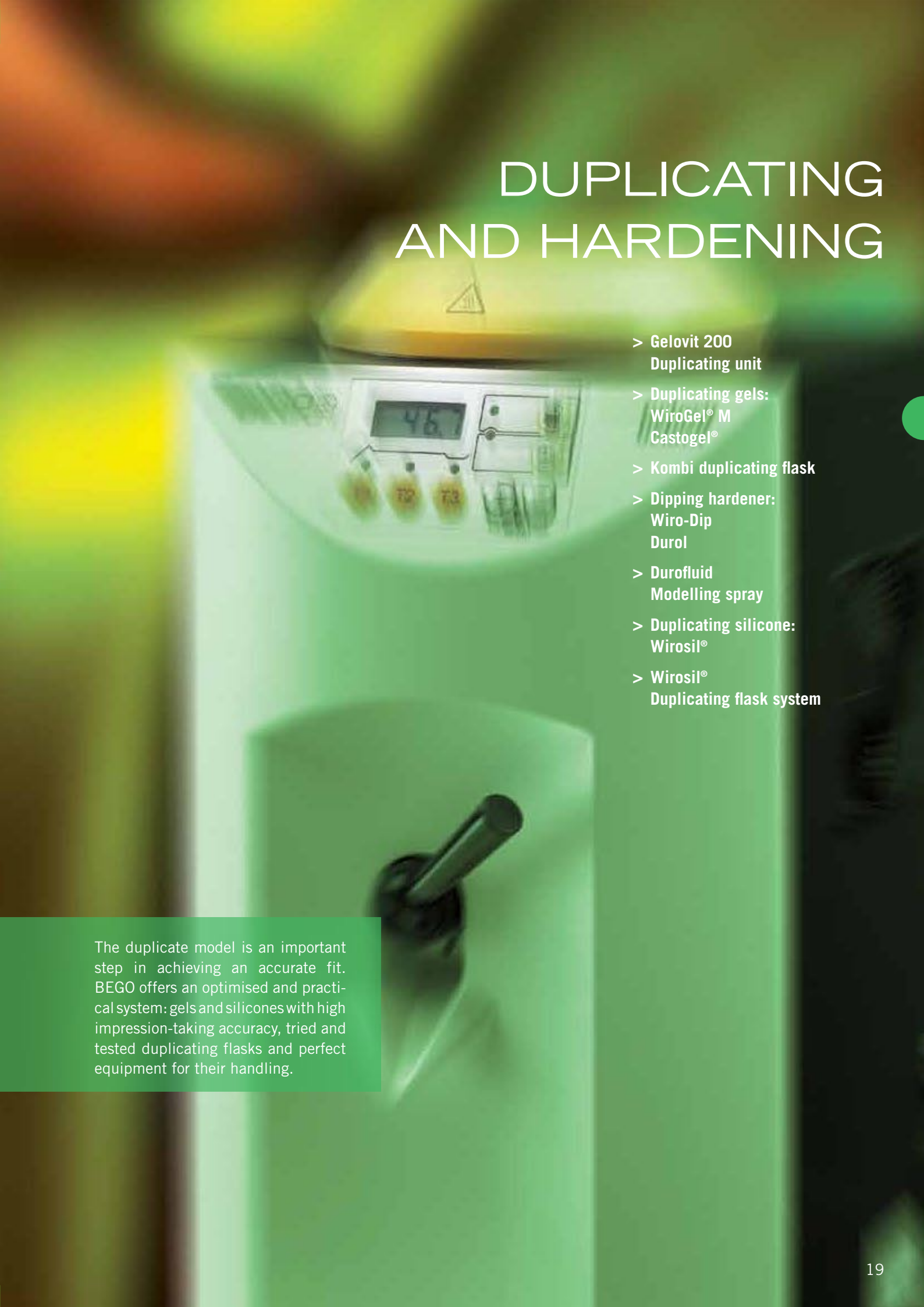
Hand saw blades

with wide guide

Length 130 mm, Cutting width 0.4 mm

Availability:	REF
1 pack = 12 pieces	52580

DUPLICATING AND HARDENING



- > Gelovit 200
  Duplicating unit
- > Duplicating gels:
  WiroGel® M
  Castogel®
- > Kombi duplicating flask
- > Dipping hardener:
  Wiro-Dip
  Durol
- > Durofluid
  Modelling spray
- > Duplicating silicone:
  Wirosil®
- > Wirosil®
  Duplicating flask system

The duplicate model is an important step in achieving an accurate fit. BEGO offers an optimised and practical system: gels and silicones with high impression-taking accuracy, tried and tested duplicating flasks and perfect equipment for their handling.

Gelovit 200

Microprocessor-controlled duplicating unit

Programable brushless agitator motor offers durability & Reliability that's second to none

- > Programmable brushless agitator motor offers durability and reliability that's second to none
- > Innovative preparation concept featuring new temperature controls for guaranteed precision warm-up and cool-down phases
- > Intelligent heating strategy and controls prevent residue deposits and nozzle blockage effectively while maintaining consistent material quality
- > Gel cools in even less time thank to a new cooling concept
- > A third (lower) temperature level prevents heat shrinkage of the gel and ensures an optimal fit
- > The time at which the gel is required to be ready can easily be pre-programmed for optimum processing
- > The number of required melting cycles can be entered separately. This ensures the consistent quality of the moulds
- > The newly designed, clearly laid out display provides information on all parameters and gives quick and easy access to all major functions

Technical data:	
Height	23" / 565 mm
Width	13" / 310 mm
Depth	14" / 355 mm
Rated voltage	100 – 240 V, 50/60 Hz
Power at rated voltage 230 V	900 W
Capacity	1.5 gallon / 3 – 6 kg
Weight	45 lbs / 20 kg

CE

Availability:	Unit	Weight	**REF**
Gelovit 200, 120 V, 50/60 Hz	1 piece		26332
Accessories:			
WiroGel® M duplicating gel for plaster, investment material and acrylic casting technique	1 tub	2.5 gal./10 kg	54352
Castogel® duplicating gel for investment material and acrylic casting technique	1 tub	1.5 gal./6 kg	52052
Kombi duplicating flask, acrylic	1 piece		52090
Brochure			81319

Corresponding product

The appropriate gel is on the next page!

You will find the detailed brochure as a download file at www.begousa.com.

WiroGel® M

Ideal for stone models

Natural duplicating gel on an agar-agar base for investment material, plaster and acrylic casting technique

> Areas of application: all phosphate-bonded investment materials, all type 4 plasters and diverse possible applications in connection with the acrylic casting technique

> Very high reproduction accuracy; smooth model surfaces produce work results that meet the highest demands also in terms of precision

> 15 melting cycles, very good cost-benefit ratio

> Price for duplication with WiroGel® M is over **five times** less expensive than with silicone; the costs for the duplicating unit are already taken into account here

> Color geared to contrast optimization for optimal process reliability

Availability:	REF
Color: blue / green	
1 tub = 2.5 gallon / 10 kg	54352
Accessories:	
Kombi duplicating flask, 1 piece	52090
Brochure	81365

You will find the detailed brochure as a download file at www.begousa.com.

Castogel®

Reversible special duplicating gel

For use with Phosphate investments only

> Castogel® special duplicating gel for high-quality CrCo, fixed/removable work and the pourable acrylic technique Highly precise duplication even with the smallest details

> Tear-resistant duplicating mould

> Outstanding elasticity

> Long shelf life

Availability:	REF
Castogel®, 1 tub = 1.5 gallon / 6 kg	52052

Kombi duplicating flask for partial denture technique

Kombi duplicating flask

The low thermal conductivity of the plastic guarantees stress-free cooling of the duplicating material. Two wedges integrated in the flask cover prevent rotation and ensure proper placement of the form back in the flask. The Kombi duplicating flasks are designed for use with our mould rings.

Availability:	REF
1 Kombi duplicating flask with wedge top, base and 2 base formers (2 sizes) 1 piece	52090

Wiro-Dip

Ecological dipping hardener

The ecological dipping hardener Wiro-Dip is used cold, is free of solvents and therefore biologically completely harmless. The hardening effect is comparable to good conventional dipping hardeners. Wiro-Dip has a fluid consistency, penetrates well and quickly, and has a neutral odour.

Availability:	REF
Wiro-Dip, 1 bottle = 1 litre	52112

Durol / Durofluid

Hardening liquid / Modelling Spray

Cold hardener for investment models

Durol is used cold and penetrate extremely well into the surface of duplicate models during hardening; the models become hard and smooth. Durofluid hardens the model and permits the wax-up to adhere better.

Availability:	REF
Durol dipping hardener 1 bottle = 1 litre	52111
Durofluid modelling spray 1 spray bottle = 100 m	52008

Wirosil®

Duplicating silicone

Wirosil® is an addition-cured two-component silicone that reproduces master models extremely accurately due to its excellent dimensional stability. With economy flask and stabilisation insert it enables work to be carried out easily and reliably without wasting material. Ideal for duplicating milled areas in combination work. Mixing ratio: 1 : 1.

Physical data:	
Processing time	approx. 5 min.
Setting time (71.6 °F / 22 °C)	30 – 40 min.
Shore A hardness (1 hr.)	17
Ductile yield	250 %
Contraction (DIN 13913)	0,03 %
Availability:	**REF**
Basic Wirosil® set: 1 bottle each = 1 kg Wirosil® 1+2, 1 measuring and mixing cup, 1 spatula, 1 duplicating flask, small, 1 duplicating flask, large, 1 spray bottle Aurofilm wetting agent, 1 spray bottle Durofluid model spray, 1 instruction for use	52000
Accessories:	
Single pack = 1 bottle of Wirosil® 1 + 2, each with 1 kg	52001
Large pack = 1 canister of Wirosil® 1 + 2, each with 10 kg	51995
Metering pumps for large pack, 1 set = 2 pieces	51999
Wirosil® mixing set, 1 set	52004
1 spray bottle Aurofilm wetting agent	52019
1 spray bottle Durofluid modelling spray	52008

Wirosil® duplicating flask system

Precise reproduction, saving of material, dimensional stability and easy handling characterise the Wirosil® duplicating flask system.

It consists of:

1. the base that holds the model
2. the sleeve with the optimal shape for upper and lower jaw models
3. the stabilisation insert of crucial importance for precision after removal of the master model and
4. three replaceable palate formers that essentially support reproduction accuracy and enable extremely economical silicone consumption through flexible positioning.

Availability:	REF
Wirosil® duplicating flask system incl. stabilisation ring with 3 palate formers small, 1 set	52072
large, 1 set	52083
Accessories:	
Stabilisation ring with 3 palate formers: for small duplicating flask	52079
for large duplicating flask	52084

Corresponding product

Wiroplus S or Wirofine.
Optimally matched system components mean clear handling, processing reliability with high-quality expert results
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MODELLING

- > Preparation wax
- > Blocking-out wax
- > Casting wax, smooth and stippled
- > Wax profiles
- > Wax profile assortment
- > Wax bar profiles
- > Wax border and edge strips
- > Wax retentions
- > Wax patterns
- > Wax clasp profiles
- > Wax grid retentions
- > Modelling wax starter set for partial denture technique
- > Wax wire
- > BellaForm™ Pontic system
- > Adapta Deep drawing system
- > Crown & Bridge waxes
- > ScanWax / ScanBlock
- > Modelling wax FC
- > Magic waxes
- > Art carver waxing instruments
- > Model carver waxing instruments
- > Sticks / Hollow sticks
- > BEGO modelling wax
- > Modelling set / Rapidi Modelling knife
- > Aurofilm Wetting agent
- > Plastic patterns

Your wax-up is like the signature of your dental laboratory: carefully selected wax components help you to achieve perfect results. Partially prefabricated profiles make for reliable and fast work.
You can obtain a detailed wax brochure from us (please state REF 82765).

Preparation wax

for partial denture technique

Preparation wax for placing under the saddle, adapts well to the master model with an excellent fit, easy, user-friendly and reliable.

Availability:	REF
1 pack = 15 sheets, Color: red, sheet size: 17.5 x 8 cm, 24 gauge / 0.5 mm	40036
22/23 gauge / 0.6 mm	40037
21 gauge / 0.7 mm	40038

Blocking-out wax

for partial denture technique

This wax was developed for blocking out undercuts, creating clasp steps and relieving critical model areas.
It is easy to scrape and cut, boiling-out temperature from 194 °F / 90 °C, setting temperature approx. 154 °F / 68 °C.
This wax adheres firmly to the model and retains its shape even during soaking and duplicating till 129 °F / 54 °C.

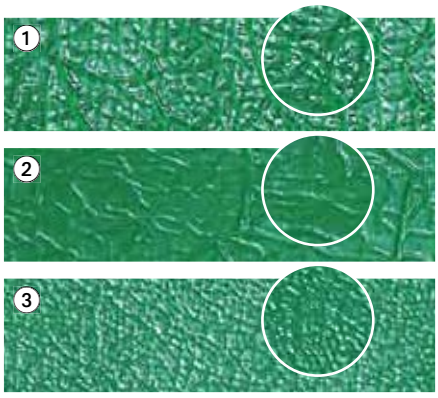
Availability:	REF
1 tin = 2.4 oz / 70 g, pink	40032

Smooth casting wax

Easy to adapt, adheres firmly and burns without residue.

Availability:	REF
Sheet size: 17.5 x 8 cm, color: green, 1 pack = 15 sheets	
30 gauge / 0.25 mm	40091
28/29 gauge / 0.3 mm	40092
26 gauge / 0.4 mm	40093
24 gauge / 0.5 mm	40094
22/23 gauge / 0.6 mm	40095
20 gauge / 0.8 mm	40096

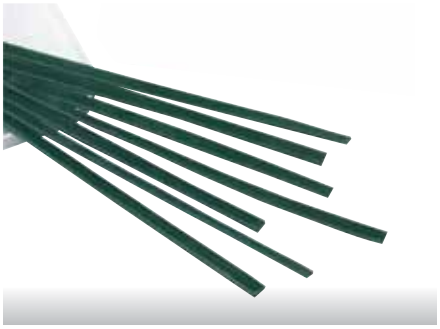
Stippled casting wax



Tried and tested wax for modelling the bases of upper partial dentures. The stippled pattern gives the base a natural appearance, is very easy to adapt and adheres securely.

Availability:				
Sheet size: 15 x 7.5 cm, color: green, 1 pack = 15 sheets				
		REF		
gauge	mm	① coarse veined	② medium veined	③ fine veined
27	0.35	40160	40192	40210
26	0.4	40170	40193	40220
24	0.5	40180	40194	40230
22/23	0.6	40190	40195	40240

Wax profiles



Easy to fix and firm adhesion. Tried and tested profile shapes for many indications.

Availability:	REF
Color: green, length: 6.7" / 17 cm	
20 gauge / 0.8 mm beading wire, 1 pack = 30 g	40261
19 gauge / 0.9 mm beading wire, 1 pack = 35 g	40262
18 gauge / 1.0 mm beading wire, 1 pack = 40 g	40263
17 gauge / 1.1 mm beading wire, 1 pack = 45 g	40281
15 gauge / 1.35 mm sprues, 1 pack = 50 g	40301
1.2 x 2.0 mm continuous clasps, 1 pack = 50 g	40381
1.6 x 4.0 mm bars, lower jaw, 1 pack = 75 g	40421
2.0 x 4.0 mm bars, lower jaw, 1 pack = 85 g	40422
1.15 x 1.75 mm clasps, continuous clasps, 1 pack = 50 g	40441
2.0 x 4.5 mm casting strips, upper jaw (small bases), 1 pack = 90 g	40462
2.0 x 6.5 mm casting strips, upper jaw, 1 pack = 125 g	40461

Wax profiles 2.0 mm x 6.5 mm for sprues on large maxillary wax-ups; wax profiles 2.0 mm x 4.5 mm for delicate maxillary wax-ups.

Creation and proper dimensioning of sprues are just as important as precise modelling. In the case of transversal bars, horseshoe-shaped and large partial denture bases, these flat casting strips have proven to be particularly good.

Wax profile assortment

An assortment of the most commonly used profiles for modelling, provided in a practical box. Medium-hard wax quality.

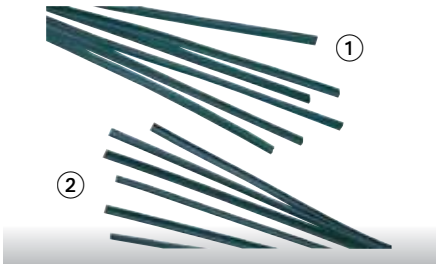
Availability:	REF
Color: green, length: 6.7” / 17 cm Assortment pack consisting of:	40250
20 gauge / 0.8 mm beading wire = 6 g,	
15 gauge / 1.35 mm sprues = 10 g,	
2.0 x 4.0 mm bars, lower jaw = 17 g,	
2.0 x 6.5 mm casting strips, upper jaw = 2 x 25 g,	
1.15 x 1.75 mm clasps, cont. clasps = 10 g	

① Anatomical wax bar profiles

for lower-jaw partial denture frames

② Wax bar profiles

according to Prof. Dr. Marxkors



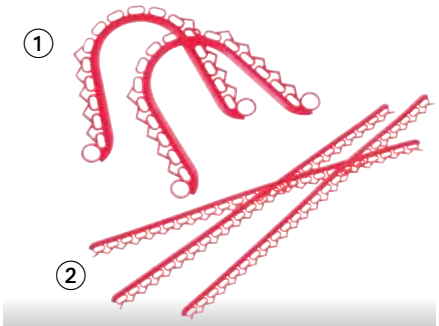
① The rounded upper edge and concave shaping facing the tongue along with the anatomical lower-jaw profile provide for good acceptance among patients.

② For the prevention of paradontal disease a spacing of 4 mm should be maintained in lower partial denture bases between the gingival border and the upper edge of the bar.

Availability:	REF
① 1 pack = 15 pieces, color: green, length: 6.7” / 17 cm	40075
② 1 pack = 15 pieces, color: green, length: 6.7” / 17 cm	40026

① Wax border and ② wax edge strips

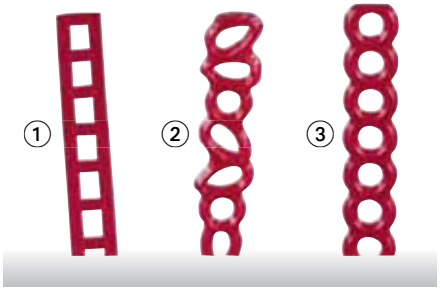
with retentions



Time savings when modelling upper-jaw frames with large saddles. A great advantage is that the border strip can easily be shaped as desired since the size can be varied by trimming the tips of the retentions.
The wax is so supple that it can be shaped easily and reliably as required onto the duplicate model.

Availability:	REF
Color: red, length: 6.7” / 17 cm	
① 1 pack = 25 pieces	40025
② 1 pack = 15 pieces	40027
② 1 laboratory pack = 150 pieces	40028

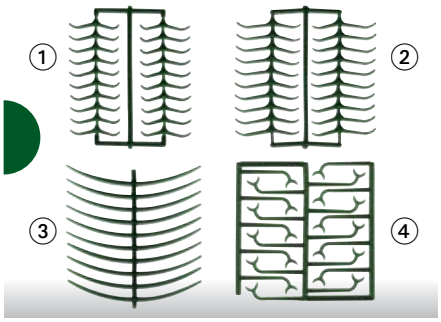
Wax retentions



For secure attachment of the plastic saddles.

Availability:	REF
Color: red, length: 6.7” / 17 cm	
① Wax ladder retentions (sufficient for 45 double free end dentures)	
1 pack = 15 pieces	40040
1 laboratory pack = 150 pieces	40050
② Wax hole retentions	
1 pack = 15 pieces	40620
1 laboratory pack = 150 pieces	40630
③ Wax retentions with round holes	
1 pack = 15 pieces	40051
1 laboratory pack = 150 pieces	40052

Wax patterns



These preshaped clasp profiles simplify modelling and help save time. The shape of the profiles enables a large number of variations by shortening the wax form.

Availability:	REF
Color: green 1 pack = 10 sheets = 200 clasps	
① for premolars	40021
② for molars	40022
③ for ring clasps	40023
④ for Bonyhard clasps	40024

Wax patterns

straight ring clasp profiles

Slender standard clasp profiles for molars.

Availability:	REF
1 pack = 10 sheets, color: green (Cross section 1:1)	40029

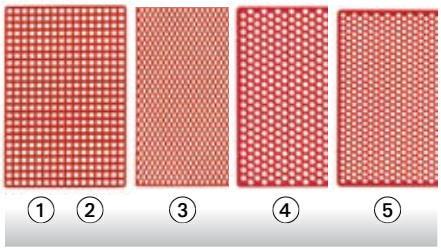
Wax clasp profiles

for molars and premolars
– medium hard, dimensionally stable –

The half tear-drop shaped cross section prevents food residues from getting stuck on molars and premolars and increases the stability over the entire clasp length. All in all a very slender clasp profile with very good acceptance among patients.

Availability:	REF
1 pack = 10 sheets = 280 clasps, color: green	40020

Wax grid retentions



① Wax grid retentions – They permit easy and effective shaping of the retentions to total or partial dentures. They guarantee a high degree of security in the connection between the plastic and the partial denture plate. The grid retentions with their large dimensions enable work without wasting material.

② Just like ① but larger plate

③ Wax diagonal grid retentions – For partial dentures, for shaping the retentions. This extremely advantageous shape offers a high degree of security in the connection between the plastic and the dentures.

④ + ⑤ Wax grid retentions with holes – Application as retentions for partial upper-jaw partial dentures and as reinforcement for total upper plastic dentures.

Availability:	REF
Colour: red	
① 1 pack = 25 pieces, 60 x 42 mm	40060
② 1 pack = 10 pieces, 100 x 100 mm	40062
③ 1 pack = 10 pieces, 75 x 150 mm	40061
④ for partial upper-jaw dentures, 1 pack = 20 pieces, 70 x 70 mm	40066
⑤ for upper-jaw dentures, 1 pack = 20 pieces, 70 x 70 mm	40039

Modelling wax starter set

for partial denture technique

Availability:	REF
Starter set	40251

Wax wire for sprues

Easy to shape, does not bend up and burns without residue. High degree of security against deformation and constriction when bending. Easy storekeeping and favourable price.

Availability:	REF
1 roll = 8.8 oz / 250 g, medium-hard, color: green	
Ø 10 gauge / 2.5 mm, approx. 50 m	40085
Ø 9 gauge / 3.0 mm, approx. 36 m	40086
Ø 7 gauge / 3.5 mm, approx. 28 m	40087
Ø 6 gauge / 4.0 mm, approx. 21 m	40088
Ø 3 gauge / 5.0 mm, approx. 17 m	40089

BellaForm™ Pontics

Quick modelling wax pontics

Availability:	Content	REF
Color: red		
Bellaform Pontics Starter Set	300 pcs.	54080
Upper centrals	50 pcs.	54081
Right upper central and lateral	50 pcs.	54082
Left upper central and lateral	50 pcs.	54083
Upper central	50 pcs.	54084
Upper lateral	50 pcs.	54085
Upper cuspid	50 pcs.	54086
Upper/lower bicuspids	50 pcs.	54087
Upper first molar	50 pcs.	54088
Left upper or right lower bicuspid/molar	50 pcs.	54089
Right upper or left lower bicuspid/molar	50 pcs.	54090
Lower centrals and laterals	50 pcs.	54091
Lower centrals	50 pcs.	54092
Lower central	50 pcs.	54093
Upper or lower laterals	50 pcs.	54094
Lower molars	50 pcs.	54095
Fixing wax	1.6 oz/45 g	54096
Modelling wax	1.6 oz/45 g	54097

Adapta deep drawing system

Easy and speedy deep drawing of crown caps. Inexpensive and long-proven system with special plastic foils.

Availability:	REF
Adapta deep drawing system comprising: 1 Forming tub with Adapta mastic 1 Spare pack Adapta mastic 1 Foil holder 100 Adapta foils, 0.6 mm in foil dispenser 1 Pack, 100 Adapta foils, 0.6 mm 200 Adapta foils, 0.1 mm red, in foil dispenser	20500
Adapta deep drawing system intro set comprising: 1 Forming tub with Adapta mastic 1 Foil holder 50 Adapta foils, 0.6 mm 50 Spacer foils, 0.1 mm	20520
Accessories:	
Adapta mastic, 1 spare pack	20503
Forming tub with Adapta mastic, 1 Forming tub	20504
Adapta Foil holder, 1 piece	20510
Adapta foil dispenser, empty, 1 piece	32688
Adapta Spacer foils, 0.1 mm transparent 1 pack = 200 pieces	20517
Adapta Spacer foils 0.1 mm red 1 pack = 200 pieces	20502
Adapta foils 0.6 mm, transparent 1 pack = 100 pieces	20501

Crown & Bridge Waxes

Margin wax has low melting temperature and is easy to burnish without shrinkage. The Foundation wax is ideal for implant case wax-ups, small copings and crown and bridge blockout. Inlay wax specially formulated for precise carvability. Milling wax mills to a high luster and does not chip or crack during the process.

Availability:	REF
Foundation Wax, 2 oz	40048
Inlay Wax, 3 oz	40047
Margin Wax, 2 oz	40049
Milling Wax, 3 oz	40046

FC Modelling wax

for pressable ceramics

Special wax for crowns and bridges in the pressable and press-on techniques, burns out without residue (ashfree).

Availability:	REF
1 tin = 70 g colour: navajowhite	40103
colour: crimson	40104
colour: gray	40105
colour: green	40106
colour: aqua	40107

Art Carver Waxing Instruments

The art of precision at your fingertips with these extremely lightweight, aluminium shaft P.K. Thomas designed instruments. Color coded for ease and identification, stainless steel tips for durability and affordably priced for lasting value.

Availability:	REF
Full Set (#1-5)	52245
Instrument #1, Yellow	52246
Instrument #2, Green	52247
Instrument #3, Blue	52249
Instrument #4, Red	52248
Instrument #5, Silver	52250

ScanWax / ScanBlock

ScanWax: For waxing up. Highly opaque and hard.
ScanBlock: For blocking out. Extremely opaque to ensure optimum data collection for fabricating precise prosthetic restorations using CAD/CAM techniques. These waxes contain inorganic constituents.

Availability:	REF
ScanWax, 1 tin = 70 g color dark-grey	40151
ScanBlock, color sky-blue	40152

Magic Waxes

Premium wax that change color to give the technician greater control in placing the wax and identifying readiness to carve. A .003 ash content ensures a clean burnout. Dipping wax properties maintain a uniform thickness after dipping.

Availability:	REF
Carving wax Color: purple to pink, 2 oz	40068
Color: green to yellow, 2 oz	40067
Dipping wax (not shown) Color: green to yellow, 4 oz	40069

Model Carver Waxing Instruments

Fixed stainless steel tips offer great precision and accuracy in both denture and partial wax-ups. Aluminium shafts offer a fatigue free work design.

Availability:	REF
Full Set (#1-5)	52255
Instrument #1	52260
Instrument #2	52256
Instrument #3	52257
Instrument #4	52258
Instrument #5	52259

Plastic sticks and Plastic hollow sticks

for distribution channels

They stabilise wax modelling in precious metal work, are easily shaped over a flame and burn without residue. Hollow sticks are used for non-precious metal alloys and those with reduced precious-metal content in metal-ceramic work.

Availability:	REF
Sticks, 1 pack = 40 pieces, length: 17 cm, ∅ 10 gauge / 2.5 mm (Cross section 1:1)	52590
Hollow sticks, 1 pack = 12 pieces, length: 16.5 cm, ∅ 5 mm (Cross section 1:1)	52595

BEGO modelling wax

for prosthetics

Sheets of pink wax for modelling the bases of dentures and the acrylic saddle supporting the teeth as well as for occlusal registration. Easy to shape, but stable with respect to temperature during trial insertion.

Availability:	REF
Color: pink, thickness: 1.5 mm 1 pack 1.1 lbs / 500 g	40001
1 pack 5.5 lbs / 2.5 kg	40007

CE

Modelling set

in artificial leather case

The set contains the most important instruments for dental technicians. The instruments are also available individually.

Availability:	REF
1 artificial leather case, complete consisting of: modelling instrument	52145
No. 1	52155
No. 3	52165
No. 5	52175
No. 7	52185
No. 9	52195
Rapidi modelling knife, 1 piece	52270
Rapidi spare blades, 1 set = 40 pieces	52280
Modelling brush, 1 piece	52205
Modelling rubber, 1 piece	52190

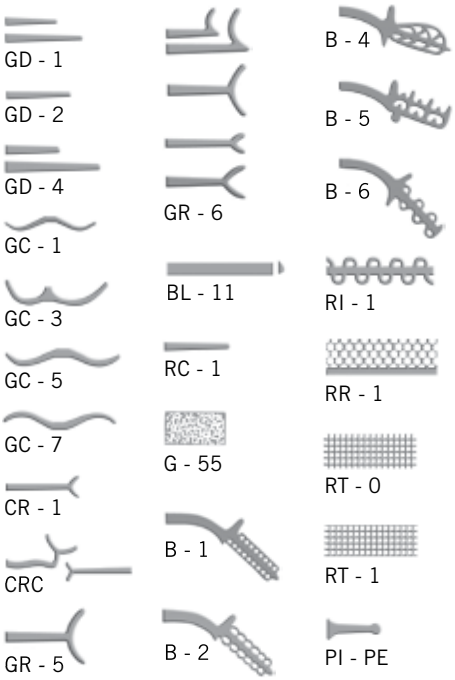
Aurofilm

Wetting agent for investment and releasing the surface tension of silicone duplicating moulds

Reliable preparation agent for investment in CoCr as well as crown and bridge work. Aurofilm eliminates the water-repellent effects of the wax pattern ensuring smooth casting surfaces. Aurofilm is also used successfully in the silicone duplication technique to reduce surface tension.

Availability:	REF
1 bottle = 34 oz / 1 litre	52015
1 spray bottle = 3.5 oz / 100 ml (for refilling)	52019

Plastic patterns



These plastic patterns available in the most popular shapes and sizes to meet all applications. All pattens are self adhesive and transparent green in color to allow technicians to see through to the model for indicator lines.

Availability:	REF
GC - 1	40810
GC - 3	40812
GC - 5	40813
GC - 7	40815
GD - 1	40821
GD - 2	40822
GD - 4	40825
CR - 1	40881
CRC	40882
GR - 5	40831
GR - 6	40832
BL - 12	40857
RC - 1	40820
G - 55; Gauge 23	40891
B - 1	40800
B - 2	40801
B - 4	40803
B - 5	40804
B - 6	40805
RI - 1	40872
RR - 1	40840
RT - 0	40845
RT - 1	40846
PI - PE	40880

INVESTING

- > **Motova 100**
  Vacuum mixer
- > **Motova 300**
  Automatic vacuum mixer
- > **Partial denture investment materials:**
  Wirovest®
  WiroFine
  Wiroplus® S
- > **Crown + bridge investment materials:**
  Bellavest® SH
  BellaStar XL
  Bellavest® T
- > **Wiropress SL pressure vessel**
- > **Mixing liquids:**
  BegoSol® / HE / K
- > **Bellatherm®**
  Soldering investment material
- > **Wiropaint plus**
  Fine investment
- > **BEGO-Press**
  Investment system
- > **Rapid Ringless System**
- > **Funnel former**
- > **Mould rings /**
  Fleecy inlay strips for moulds
- > **Base socket mould formers**
- > **Mould former**
- > **Kombi duplicating flask**

For investing the wax-ups, BEGO offers the dental technician a whole range of innovative investment materials with a proven track record. Bellavest® SH, WiroFine and Wirovest are well-known brand products. Mixing liquids specially formulated for use with the particular type of investment material regulate the expansion reliably and ensure excellent casting results.

Motova 100

The inexpensive vacuum mixer – Basic model with top performance

> A unit for various materials – mixes investment, plaster, die material and duplicating silicone

> 100 mbar vacuum output eliminates air bubbles enclosed in the mixing material and prevents, at the same time, the development of bubbles

> Mixing bowls are fixed to the agitator by means of a vacuum, this eliminates the cumbersome mechanics of fixing to a holding device

> Large selection of transparent mixing bowls in sizes ranging from 250 to 1,200 ml always ensures the optimal amount of investment

> An electronic timer accurately controls the mixing time and the pressure gauge integrated in the front of the unit always displays the current vacuum in the mixing bowl for complete control of the process

> The geometry of the spatula and mixing bowl takes the physical properties of the different materials into consideration. They are individually optimised for mixing investment and duplicating silicone, creating consistency with each mixing procedure

> An attractively designed tabletop stand is available for the use as bench unit if wall mounting is not preferred

Motova Benchtop

Technical data:	
Height	12“ / 310 mm
Width	8.5“ / 210 mm
Depth	13“ / 330 mm
Rated voltage	110 V, 50/60Hz
Special voltage	230 V, 50/60Hz
Power at rated voltage 230 V	500 VA
Vacuum pump: Pump capacity	20 l/min
Vacuum capacity	approx. 100 mbar
Number of mixing programs	1
Number of programmable sections per mixing program	1
Programmable mixing time	0 to 255 seconds
Stirring speed	330 min^{-1}
Weight	22 lbs / 10 kg

CE

Availability:	REF
Scope of delivery: Motova 100, 110 V, 50/60 Hz with 550 ml vacuum mixing bowl incl. quick-action coupling, wall mount	26281
Accessories:	
Benchtop Stand	16270
Vacuum mixing bowl M 250 ml (investment material and plaster)	16271
Vacuum mixing bowl M 550 ml (investment material and plaster)	16272
Vacuum mixing bowl M 835 ml (investment material and plaster)	16273
Vacuum mixing bowl M 1200 ml (investment material and plaster)	16274
Vacuum mixing bowl MS 550 ml (duplicating silicone)	16275
Vacuum mixing bowl MS 835 ml (duplicating silicone)	16276
Vacuum mixing bowl MS 1200 ml (duplicating silicone)	16277
Brochure	82755

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Motova 300

The automatic vacuum mixer

- Automatic vacuum mixing unit for various materials – mixes investment, plaster, die material and duplicating silicone
- Mixing bowls are fixed to the agitator by means of a vacuum, this eliminates the cumbersome mechanics of fixing to a holding device
- Pre-programmed mixing programmes take into consideration the physical requirements of the mixing materials and produce constant results to a consistent quality
- Program parameters for prevacuum/mixing/postvacuum: rotational speed, rotational direction and time
- Automatic mixing eliminates the error potential and provides secure results; BEGO investments, plasters and silicone are already pre-programmed
- The 2-line digital display provides all program parameters, including the product - for complete control of the mixing procedure
- The geometry of the spatula and mixing bowl takes the physical properties of the different materials into consideration. They are individually optimized for mixing investment and duplicating silicone, creating consistency with each mixing procedure
- An attractively designed tabletop stand is available for the use as bench unit

Motova Benchtop

Technical data:	
Height	12“ / 310 mm
Width	8.5“ / 210 mm
Depth	13“ / 330 mm
Rated voltage	110 V, 50/60Hz
Special voltage	230 V, 50/60Hz
Power at rated voltage 230 V	200 VA
Vacuum pump: Pump capacity	20 l/min
Vacuum capacity	approx. 100 mbar
Number of mixing programs	50
Preset programs	17
Number of programmable sections per mixing program	10
Programmable time per section	0 to 255 seconds
Stirring speed	100 to 600 min^{-1}
Weight	32 lbs / 14.5 kg

CE

Availability:	**REF**
Scope of delivery: Motova 300 110 V, 50/60 Hz with 550 ml vacuum mixing bowl incl. quick-action coupling, wall mount	26271
Accessories:	
Benchtop Stand	16270
Vacuum mixing bowl M 250 ml (investment material and plaster)	16271
Vacuum mixing bowl M 550 ml (investment material and plaster)	16272
Vacuum mixing bowl M 835 ml (investment material and plaster)	16273
Vacuum mixing bowl M 1200 ml (investment material and plaster)	16274
Vacuum mixing bowl MS 550 ml (duplicating silicone)	16275
Vacuum mixing bowl MS 835 ml (duplicating silicone)	16276
Vacuum mixing bowl MS 1200 ml (duplicating silicone)	16277
Brochure	82760

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Wirovest®

Investment material for partial dentures

- The classic BEGO partial denture investment material. Proven worldwide, very smooth surface, for gel and silicone duplication
- Special investment material for gel and silicone duplication with conventional preheating
- Worldwide approx. 40,000,000 partial denture frames fabricated with Wirovest®
- Very tolerant investment material at diverging parameters of use. High level of reliability and quality.
- For pouring the cylinder, Wirovest® can be mixed with water. This reduces the costs for special liquids considerably
- The pack size of 4 x 4.5 kg makes Wirovest® even more economical
- BegoSol® special liquid can be transported safely at temperatures down to -14 °F / -10°C

Physical data:	
Mixing liquid	**BegoSol®** *
Processing time at 68 °F / 20 °C	approx. 3 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	5 minutes
Compressive strength [MPa]	15
Linear thermal expansion [%]	1.15
***BegoSol®** (Anti-freeze optimization up to -14 °F / -10 °C)	

DIN EN ISO 15912

Availability:	Weight	Pieces/Unit	**REF**
Wirovest®			
1 carton	33 lbs / 15 kg	45/400-g bags	51046
The packs do not contain any mixing liquid.			
Accessories:			
BegoSol® mixing liquid		Litres	
1 bottle		1 l	51090
1 canister		5 l	51091

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Corresponding product

Wironit and Wironium group alloys (46 onwards)
Optimally matched system components mean clear handling, processing reliability with high-quality expert results.

Instructions for using Wirovest®:

For hardening the duplicate model surface with an ecological dipping hardener like Wiro-Dip, a temperature of 302 °F / 150 °C is adequate for preheating. The model is then dipped for 5 to 7 seconds. To avoid heavy residues of dipping hardener on the model, it should be kept vertical when immersing and when removing from the hardener. Dry at approx. 302 °F / 150 °C for 10 minutes. Afterwards, spray the model briefly with Durofluid.

WiroFine

Universal investment material for all applications in partial denture and combination technique, for gel and silicone duplication

Fine grained material produces smooth model surfaces even with gel duplication – no hardening required with silicone duplication. Ideal flow properties mean reliable and relaxed working, as even the finest areas are precisely reproduced.

Physical data:	
Mixing liquid (Anti-freeze optimization up to -14 °F / -10 °C)	BegoSol® K/Bego Sol®
Processing time at 68 °F / 20 °C	approx. 3.5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	6 min.
Compressive strength [MPa]	11
Linear thermal expansion [%]	0.8
Availability:	**REF**
1 carton, 18 kg = 45 pcs 400-g bags	54345
The packs do not contain any mixing liquid.	

Accessories:	
BegoSol® K mixing liquid	
1 bottle = 1 l	51120
1 canister = 5 l	51121
BegoSol® K is sensitive to frost.	
Alternatively: *BegoSol® (with frost protection)* ***only for conventional preheating:***	
BegoSol® mixing liquid	
1 bottle = 1 l	51090
1 canister = 5 l	51091
Brochure	81383

DIN EN ISO 15912

Corresponding product

Wironit and Wironium group alloys (46 onwards)

Optimally matched system components mean clear handling, processing reliability with high-quality expert results.

Wiroplus® S

Precision partial denture investment material for silicone duplication technique

Special investment for the silicone duplicating technique; has a longer working time which means reliable processing. Ideal for all cast partial denture work from clasp-retained partial dentures to attachment restorations. The very smooth surface of the duplicate models and equally smooth casting surfaces produce impressively fitting castings. Optimally coordinated expansion parameters lead to a significant saving in finishing time, particularly on milled surfaces. The high edge strength combined with easy devesting ensures a reliable wax-up and efficient, devesting of the cast partial denture framework.

Physical data:	
Mixing liquid (Anti-freeze optimization up to -14 °F / -10 °C)	BegoSol®
Processing time at 68 °F / 20 °C	approx. 4 min.
Total expansion with 80 % BegoSol® mixing liquid	2.3 %
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification	
(Vicat time)	5.5 minutes
Compressive strength [MPa]	18
Linear thermal expansion [%]	1.2
Availability:	**REF**
1 carton 6 kg = 30 pieces 200-g bags	54353
1 carton 18 kg = 45 pieces 400-g bags	50248
The packs do not contain any mixing liquid.	
Accessories:	
BegoSol® mixing liquid	
1 bottle = 1 l	51090
1 canister = 5 l	51091

DIN EN ISO 15912

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Bellavest® SH

Shock-Heat, rapidly or conventionally heatable precision casting investment material for crowns and bridges, also made of pressed ceramics

- > Phosphate-bonded universal investment provides familiar, clear handling properties ideal for all C & B needs
- > Easy to use with the special mixing liquid BegoSol® HE, providing maximum expansion during all applications using only one liquid
- > Precise expansion control, fine creamy consistency ensures reliable processing and consistent quality for a range of indications from pressable ceramics to telescopic restorations fabricated using non-precious alloy
- > Long working time of 5 minutes enables relaxed working
- > Extremely smooth casting surfaces result in a good fit and savings in finishing time due to minimal preparation times
- > Hardens with a high edge strength and easy devesting, which means a saving in time and economical use of blasting material (order, e.g. Korox 110 µm at the same time: REF 46044, Page 78) for the user
- > Guaranteed shelf life of 24 months in sealed pre-portioned bags ensuring consistent quality over a long period
- > Perforated bag with tear strip provides clean, immediate and easy use

Physical data:	
Mixing liquid	**BegoSol® HE**
Processing time at 68 °F / 20 °C	approx. 4.5 - 5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	approx. 10 min.
Compressive strength after 2 hours [MPa]	4.2 - 5.1
Linear thermal expansion [%]	0.85

DIN EN ISO 15912

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Availability:	Weight	Pieces/Unit	**REF**
Bellavest® SH			
1 carton	25 lbs / 11 kg	100/100-g bags	54813
1 carton	28 lbs / 12.8 kg	80/160-g bags	54253
The packs do not contain any mixing liquid.			
1 carton with 2 litres liquid	28 lbs / 12.8 kg	80/160-g bags	54252
1 carton with 2 litres liquid	30 lbs / 13.75 kg	100/100-g bags	54804
Accessories:			
BegoSol® HE mixing liquid		Litres	
1 bottle		1 l	51095
1 canister		5 l	51096
(BegoSol® HE is sensitive to frost.)			

Corresponding product

Wirobond® 280
premium alloy · REF: 50134 (Page 40)
Easy preparation due to a low hardness, biocompatibility tested and certified.

Wiron® 99 non-precious alloy · REF: 50225
(Page 42)
Biocompatible and proven worldwide for over 20 years.

Instructions for using Bellavest® SH:

Universal investment materials are characterised by adjustable expansion levels and resistance to temperature and pressure. Bellavest® SH combines all the requirements for crown and bridge work. This applies equally to precious-metal and non-precious alloys, and also includes pressable ceramics. With BegoSol® HE the desired expansion can be adjusted for every application and indication. This makes Bellavest® SH one of the world's leading crown and bridge investment materials. It is best to use Bellavest® SH and BegoSol® HE at a constant temperature of + 68 °F / + 20 °C and processing parameters, such as mixing time and mixing speed, should also be constantly maintained to ensure consistent.

BellaStar XL

The premium investment for crowns and bridges – formulated for precious metal alloys

Extremely fine grain for excellent fitting accuracy. Ideal for precious-metal alloys, but also optimally applicable for non-precious alloys. Fluid to creamy consistency with optimal flow properties. Reliable expansion control with BegoSol® K. Outstanding deflasking characteristics, extremely smooth casting surfaces. For conventional or shock-heat processing, set temperature can be final temperature. Can be processed with or without ring, mould sizes freely selectable. Bella Star XL gives the technician flexibility, reliability and relaxed working with excellent precision.

Physical data:	
Mixing liquid	BegoSol® K
Processing time at 68 °F / 20 °C	approx. 3.5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	7.5 min.
Compressive strength [MPa]	5.5
Lineare thermische Expansion [%]	1.1
Availability:	**REF**
1 carton 10 lbs / 4.5 kg = 75 pieces 60-g bags	54360
1 carton 20 lbs / 9 kg = 100 pieces 90-g bags This pack does not contain any mixing liquid.	54376
1 carton 28 lbs / 12.7 kg = 100 pieces 90-g bags with 2 litres liquid	54372
Accessories:	
BegoSol® K mixing liquid 1 bottle = 1 l	51120
1 canister = 5 l	51121
(BegoSol® K is sensitive to frost.)	
Brochure	81701

DIN EN ISO 15912

Corresponding product
Reliable processing in the system with the top BEGO alloys (Page 10 – 11)

Bellavest® T

Graphite-free crown and bridge precision casting investment material for precious and non-precious metal applications

Tried and tested in fitting accuracy and processing. Firm edges and easy to deflask. Can only be heated conventionally. Bellavest® T gives the technician clear handling, confidence and optimal results with high cost-effectiveness.

Physical data:	
Mixing liquid	BegoSol® or BegoSol® HE
Processing time at 68 °F / 20 °C	approx. 5 min.
Shelf life in unopened bag	24 months
Characteristic values of the material according to DIN EN ISO 15912:	
Beginning of solidification (Vicat time)	9.5 min.
Compressive strength [MPa]	10
Linear thermal expansion [%]	1.2
Availability:	**REF**
1 carton 28 lbs / 12.8 kg = 144 pieces 90-g bags	54213
1 carton 11 lbs / 4.8 kg = 30 pieces 160-g bags	54201
1 carton 10 lbs / 4.5 kg = 75 pieces 60-g bags	54209
Cartons do not contain any mixing liquid.	
Accessories:	
BegoSol® mixing liquid	
1 bottle = 1 l	51090
1 canister = 5 l	51091
Alternatively for greater expansion:	
BegoSol® HE mixing liquid	
1 bottle = 1 l	51095
1 canister = 5 l	51096
(BegoSol® HE is sensitive to frost.)	

DIN EN ISO 15912

Wiropress SL pressure vessel

For bubble free investing

- Provides a pressurized atmosphere for virtual bubble-free curing of investments, silicone duplications, die-stone and acrylic materials
- Insures a dense, smooth surface finish on all molds, gypsum models, and acrylic repair work over conventional air setting
- Durable steel construction with see-through chamber allows for easy observation of the curing process
- Spacious chamber allows for simultaneous curing of multiple rings to save processing time
- UL® listing to insure operators safety

Physical data:	
Height	11" / 280 mm
Width	9.5" / 242 mm
Depth	18" / 458 mm
Mould Chamber Height	3.75" / 96 mm
Mould Chamber Width	5.5" / 140 mm
Mould Chamber Depth	7.5" / 191 mm
Maximum Pressure	60 psi
Air Connection	1/4" Quick Connect
Weight	34 lbs
Warranty	Limited 2 Year
Availability:	**REF**
Wiropress SL	25926
Accessories:	
O-ring	34986
Door Handle Assembly	34987

BegoSol®

Mixing liquids for BEGO investment materials

Depending on the alloy and area of application, BegoSol® can be mixed with distilled or demineralised water to the concentration required. The higher the concentration of BegoSol®, HE or K, the greater the expansion of the investment material.

Availability:	REF
BegoSol® (Anti-freeze optimization up to -14 °F / -10 °C) Mixing liquid for Wiroplus® S, Wirovest® and Bellavest® T	
1 bottle = 1 l	51090
1 canister = 5 l	51091
BegoSol® HE Special mixing liquid (frost-sensitive) for Bellavest® SH and also Bellavest® T	
1 bottle = 1 l	51095
1 canister = 5 l	51096
BegoSol® K Special mixing liquid (frost-sensitive) for WiroFine and BellaStar XL	
1 bottle = 1 l	51120
1 canister = 5 l	51121

Bellatherm®

Phosphate-bonded soldering investment material

It is dimensionally stable, tixotropic and suitable for the high soldering temperatures. Bellatherm® provides for extremely firm edges as well as excellent fitting accuracy and can be washed off the soldered object under running water.

Availability:	REF
1 tin = 10 lbs / 4.5 kg	51105

Wiropaint plus

Fine investment material for partial denture technique

It provides a very smooth casting surface and speeds up finishing work considerably. Wiropaint plus hardly settles in the bottle and is always ready for use.

Availability:	REF
1 bottle = 200 ml	51100

BEGO-Press Investment system

Universal investment system for standard pressable ceramic systems

> Easy to clean
> Durable silicone ring
> Suitable for all investment materials for pressed ceramics systems

Availability:	REF
BEGO-Press investment system 1 set, consisting of mould base, silicone ring and mould cover:	
for 100 g	52668
for 200 g	52669

Rapid Ringless System

Compatible with BEGO Rapid wax system

> Time savings in relation to mould systems with foil sleeve, iron ring, etc.
> Compatible with Rapid Wax System Minimal wear, thus lower costs than with comparable systems
> Universally applicable for many casting systems Easy separation of mould and mould ring
> For all BEGO crown and bridge investment materials

Availability:	REF
Casting ring and base	
$1^1/_4$, 1 set	52665
$1^1/_2$, 1 set	52665A
2, 1 set	52666
$2^1/_2$, 1 set	52667

Funnel formers

for partial denture technique

To be used when there is insufficient space for the other funnel former:

① **Universal funnel former for partial denture work**
Matches all BEGO casting systems.

② **Funnel former with reservoir**
For combination crucible.

③ **Funnel former, standard model**
It is used when there is insufficient space for the other funnel former.

④ **Funnel former for Nautilus® and other casting systems**

Availability:	REF
① 1 pack = 100 pieces	52068
② 1 pack = 10 pieces	52075
③ 1 pack = 10 pieces	52060
④ 1 pack = 10 pieces	52066

Metal mould rings

for crown ans bridge work

Metal mould rings – Long service life thanks to special steel design. Suitable for all BEGO crown and bridge investment materials.

Availability:	REF
Mould rings, 1 set = 4 pieces Size 1 – for 60 g of investment material	52419
Size 3 – for 180 g of investment material	52422
Size 6 – for 360 g of investment material	52423
Size 9 – for 540 g of investment material	52424

Fleecy inlay strips for moulds

Permit unimpeded expansion of the investment material

The BEGO fleecy inlay strips for moulds contain no asbestos. They burn without residue and provide room for the investment material to expand. The lining strips are the same height as the rings.

Availability:	REF
Fleecy inlay strips for moulds, 1 pack = 3 x 30 m, 40 mm	52409
45 mm	52408

Base socket mould formers

for crown and bridge work

For making moulds with metal mould rings with hard rubber base plate.

Availability:	REF
with hard rubber base plate Size 3, 1 set = 4 pieces	52627
Size 6, 1 set = 4 pieces	52628
Size 9, 1 set = 4 pieces	52629

BEGO mould formers

Eliminates fixing and grinding of the investment models when the BEGO combination duplicating flask is used. Both mould formers can also be used with all other duplicating systems.

Availability:	REF
small, red, 1 set = 4 pieces	52390
large, blue, 1 set = 4 pieces	52400

Kombi duplicating flask for partial denture technique

Kombi duplicating flask

The low thermal conductivity of the plastic guarantees stress-free cooling of the duplicating material. Two wedges integrated in the flask cover prevent rotation and ensure proper placement of the form back in the flask. The Kombi duplicating flasks are designed for use with our mould rings.

Availability:	REF
1 Kombi duplicating flask with wedge top, base and 2 base formers (2 sizes) 1 piece	52090

Identalloy® Stickers are available for all BEGO non-precious alloys

NON PRECIOUS METAL ALLOYS

- **Co-Cr-metal-to-ceramic alloys:**
  Wirobond® 280
  Wirobond® C
  Wirobond® SG
- **Ni-Cr- alloys:**
  Wiron® 99
  Wiron® light
  Wirocer plus
- **Cobalt-chrome partial denture alloys:**
  Wironit® LA
  Wironit®
  Wironit® extra-hard
  Wironit®-clasp wire
  WIRONIUM® plus
  WIRONIUM®
  WIRONIUM® extra-hard
- **Talmi Dental training metal**

With non-precious alloys from BEGO you're always on the safe side! Millions of patients treated worldwide are best proof of this. For partial dentures and crowns and bridges, the BEGO range of alloys are optimised on the basis of decades of research and continuous innovation. WIRONIUM® and Wironit®, Wiron® and Wirobond® are the names many people automatically think of when it comes to non-precious alloys. Their physical and biological properties are legendary.

Wirobond® 280

The non-precious metal premium alloy for metal-to-ceramic work or acrylic veneering
– free of nickel and beryllium –

The new standard

- Extremely corrosion resistant through optimal interaction of the essential elements chrome and molybdenum
- Biocompatibility certified by neutral institute
- Low thermal conductivity provides high intraoral comfort for the patient
- Great strength at any maintainable span
- Easy work out through reduced hardness von 280 HV10
- Time-saving, as long-term cooling is not required
- Secure bonding with ceramics
- Secure fabrication based on the proven BEGO system

Alloy characteristics:	standard values
Type (ISO 22674)*	5
Density [g/cm³]	8.5
Coefficient of expansion [10^{-6} K^{-1}] 25 – 500 °C	14.0
20 – 600 °C	14.2
Preheating temperature	1650 – 1830 °F / 900 – 1000 °C
Casting temperature	approx. 2730 °F / 1500 °C
Melting interval	2480 – 2552 °F / 1360 – 1400 °C
Modulus of elasticity [GPa]	approx. 220
Elongation limit ($R_{p0,2}$) [MPa]	540
Tensile strength (Rm) [MPa]	680
Ductile yield (A_5) [%]	14
Vickers hardness (HV10)	280

CE 0197 ISO 22674 · ISO 9693

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Composition in % by mass:

Wirobond® 280
Co 60.2 · Cr 25 · W 6.2 · Mo 4.8 · Ga 2.9 · Si, Mn each < 1

Availability:	Unit	Content	**REF**
Wirobond® 280	1 pack	35 oz / 1000 g	50134
	1 pack	9 oz / 250 g	50135
Accessories:			
Wiroweld Co-Cr laser wire, containing no carbon			
∅ 0.35 mm	1 pack	2 m	50003
∅ 0.5 mm	1 pack	1.5 m	50005
Wirobond® soldering rods before firing	1 pack	5 g	52622
WGL solder after firing	1 pack	5 g	61079
Brochure			82734
Certificate			82738

Corresponding product
Bellavest® SH precision investment · REF: 54252 (Page 34)
A universal investment for crowns and bridges and for pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy.

Types acc. to ISO 22674

Type 3: Indicated for fixed, multi-unit prosthetic restorations, e.g. bridgework.

Type 4: Indicated for prosthetic restorations or sections thereof with thin cross-sections exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, long-span bridgework or bridges with small cross-sections, bars, retainers, implant-supported superstructures.

Type 5: Indicated for prosthetic restorations where parts thereof require a combination of high rigidity and strength, e.g. thin removable partial dentures, sections with thin cross-sections, clasps.

Wirobond® C

Cobalt-chrome metal-to-ceramic alloy
– free of nickel and beryllium –
Worldwide recognition for over 18 years

> Biocompatibility and high corrosion resistance thanks to firmly adhering passive layer
> Biocompatibility tested by a neutral third party institute
> High bonding strength with ceramics
> High heat resistance
> Low thermal conductivity provides intraoral comfort for the patient
> Optimized for laser welding
> Trouble-free processing with BEGO system
> Constant high level of quality thanks to quality assurance system

Alloy characteristics:	standard values
Type (ISO 22674)*	4
Density [g/cm³]	8.5
Coefficient of expansion [10^{-6} K^{-1}]	
77 – 932 °F / 25 – 500 °C	14.0
68 – 1112 °F / 20 – 600 °C	14.2
Preheating temp. 1650–1830 °F/900–1000 °C	
Casting temperature approx. 2730 °F / 1500 °C	
Melting interval 2498–2588 °F/1370–1420 °C	
Modulus of elasticity [GPa]	ca. 210
Elongation limit ($R_{p0,2}$) [MPa]	480
Tensile strength (Rm) [MPa]	680
Ductile yield (A_5) [%]	9
Vickers hardness (HV10)	310
Composition in % by mass: Co 63.3 · Cr 24.8 · W 5.3 · Mo 5.1 · Si, Fe, Ce each < 1	

Availability:	**REF**
Wirobond® C	
1 pack = 35 oz / 1000 g	50115
1 pack = 9 oz / 250 g	50116
1 pack = 1 oz / 28 g	50118
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon:	
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.35 mm, 1 pack = 2 m	50003
Wirobond®-soldering rods, 1 pack = 5 g	52622
WGL solder, 1 pack = 5 g	61079
Brochure	81346
Certificate	82610

CE 0197 ISO 22674 · ISO 9693

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Wirobond® SG

Cobalt-chrome metal-to-ceramic alloy – free of nickel and beryllium –

> Economically priced through optimized fabrication process
> Biocompatibility tested by a neutral third party institute
> Secure bonding with ceramics
> Superior thermal control provides dimensional stability during firing and soldering
> High intraoral comfort due to low thermal conductivity
> Trouble-free processing with BEGO system

Alloy characteristics:	standard values
Type (ISO 22674)*	4
Density [g/cm³]	8.5
Coefficient of expansion [10^{-6} K^{-1}]	
77 – 932 °F / 25 – 500 °C	14.1
68 – 1112 °F / 20 – 600 °C	14.3
Preheating temp. 1650–1830 °F/900–1000 °C	
Casting temperature approx. 2696 °F / 1480 °C	
Melting interval 2498–2588 °F/1370–1420 °C	
Modulus of elasticity [GPa]	approx. 200
Elongation limit ($R_{p0,2}$) [MPa]	470
Tensile strength (Rm) [MPa]	650
Ductile yield (A_5) [%]	8
Vickers hardness (HV10)	310
Composition in % by mass: Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si, Fe each < 1	

Availability:	**REF**
Wirobond® SG	
1 pack = 35 oz / 1000 g	50128
1 pack = 9 oz / 140 g	50130
1 pack = 1 oz / 28 g	50129
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon:	
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.35 mm, 1 pack = 2 m	50003
Wirobond®-soldering rods, 1 pack = 5 g	52622
WGL solder, 1 pack = 5 g	61079
Brochure	82724
Certificate	82721

CE 0197 ISO 22674 · ISO 9693

*The various types are shown on page 40

Wiron® 99

The non-precious metal alloy for metal-to-ceramic work or acrylic veneering – free of beryllium –

Biocompatible, proven worldwide and reliable for over 20 years

- > High corrosion resistance due to passitivity layer formed by the combination of chrome, molybdenum and niobium
- > Biocompatibility tested by a neutral third party institute
- > Low thermal conductivity provides intraoral comfort for the patient
- > High modulus of elasticity provides reliability against distortion due to masticatory forces
- > Great strength with any acceptable span
- > Easy, time-saving preparation due to the low vickers hardness of 180
- > Time-saving, as long-term cooling is not required
- > Reliable metal-to-ceramic bond
- > High thermal stability provides dimensional stability during firing and soldering
- > Reliable processing according to proven Wiron® system

Alloy characteristics:		standard values
Type (ISO 22674)*		3
Density [g/cm³]		8.2
Coefficient of expansion [10^{-6} K^{-1}]	77 – 932 °F / 25 – 500 °C	13.8
	68 – 1112 °F / 20 – 600 °C	14.0
Preheating temperature		1650 – 1830 °F / 900 – 1000 °C
Casting temperature		approx. 2642 °F / 1450 °C
Melting interval		2282 – 2390 °F / 1250 – 1310 °C
Modulus of elasticity [GPa]		approx. 200
Elongation limit ($R_{p0,2}$) [MPa]		330
Tensile strength (Rm) [MPa]		650
Ductile yield (A_5) [%]		45
Vickers hardness (HV10)		180

CE 0197 ISO 22674 · ISO 9693

*The various types are shown on page 40

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Composition in % by mass:

Wiron® 99
Ni 65 · Cr 22.5 · Mo 9.5 · Nb, Si, Fe, Ce each < 1

Availability:	Unit	Content	**REF**
Wiron® 99	1 pack	35 oz / 1000 g	50225
	1 pack	9 oz / 250 g	50226
	1 pack	1 oz / 28 g	50227
Accessories:			
Wiroweld NC, Ni-Cr laser wire, containing no carbon	1 roll	approx. 18 ft / 5.5 m	50006
Wiron® soldering rods	1 pack	5 g	52625
WGL solder	1 pack	5 g	61079
Brochure			81370
Certificate			82529

Corresponding product

Bellavest® SH precision investment · REF: 54252 (Page 34)
A universal investment for crowns and bridges and for pressable or press-on ceramic, speed or conventional heating, also suitable for telescope crowns fabricated using non-precious alloy.

Wiron® 99:

Solid bridge wax-ups are reliably filled with alloy if the casting reservoir is always adapted to the volume of the frame wax-up. Using slightly more alloy is generally more economical than later welding corrections or repeat castings.

When melting in induction casting units such as Fornax® T, the further heating time stated in the work instructions is a useful guide for ensuring that the correct moment for casting is reproducible.

Wiron® light

The non-precious alloy for metal-to-ceramic work, with light oxide – beryllium-free –

Simple casting, easy finishing, risk-free working

> The proper moment for casting is clearly recognizable and the excellent melting properties of the alloy ensure reliable filling of the mould
> The lower mould preheating temperature of only 800 °C (1472 °F) gives a very smooth surface
> The lower casting temperature of only 1350 °C (2462 °F) reduces the reactionof the alloy with the investment material
> The oxide of Wiron® light is considerably lighter in colour compared to conventional NiCr alloys and is very easy and fast to remove
> The outstanding strength values of Wiron® light make it possible to produce delicate work without the risk of breakage
> If an excellent, high-lustre polished fi nish is required, we recommend the premium diamond polishing compound Diapol

Alloy characteristics:	standard values
Type (ISO 22674)*	4
Density [g/cm³]	8.2
Coefficient of expansion [10^{-6} K^{-1}] 77 – 932 °F / 25 – 500 °C	13.8
68 – 1112 °F / 20 – 600 °C	14.1
Preheating temperature	1472 °F / 800 °C
Casting temperature	2462 °F / 1350 °C
Melting interval	2192 – 2366 °F / 1200 – 1280 °C
Modulus of elasticity [GPa]	approx. 200
Elongation limit ($R_{p0,2}$) [MPa]	470
Tensile strength (Rm) [MPa]	880
Ductile yield (A_5) [%]	10
Vickers hardness (HV10)	260

CE 0197 ISO 22674 · ISO 9693

*The various types are shown on page 40

Composition in % by mass:

Wiron® light
Ni 64.5 · Cr 22.0 · Mo 10.0 · Si 2.1 · Nb, Mn, B each < 1

Availability:	Unit	Content	**REF**
Wiron® light	1 pack	36 oz / 1000 g	50270
	1 pack	9 oz / 250 g	50272
	1 pack	1 oz / 28 g	50271
Accessories:			
Wiroweld NC, Ni-Cr laser wire, containing no carbon	1 roll	approx. 5.5 m	50006
Wiron® soldering rods	1 pack	5 g	52625
WGL solder	1 pack	5 g	61079
Diapol Diamond polishing compound	1 pack		52305
Certificate			82944
Brochure			82945

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Wiron® light:

To ensure that the ceramic bonds firmly to the metal, it is essential that the bonding surface is trimmed with sharp tungsten carbide cutters. The manufacturer's recommended speed must be adhered to. Following this, the surface must be sandblasted with an abrasive of predefined grit size, such as Korox® 250, at the recommended compressed air pressure of 3 – 4 bars. It is essential to clean the surface with a steam-cleaner, such as the Triton, or in boiling water.

Wirocer plus

Nickel-chrome metal-to-ceramics alloy – containing no beryllium –

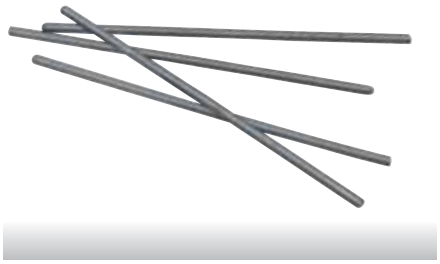
- Economically priced through optimized fabrication process
- Easy, time-saving preparation due to moderate hardness
- Time-saving, as long-term cooling is not required
- Biocompatibility tested by a neutral third party institute
- High intraoral comfort due to low thermal conductivity
- Secure metal-to-ceramic bond
- Reliable processing according to proven BEGO system

Alloy characteristics:	standard values
Type (ISO 22674)*	3
Density [g/cm³]	8.2
Coefficient of expansion [10^{-6} K^{-1}]	
77 – 932 °F / 25 – 500 °C	13.8
68 – 1112 °F / 20 – 600 °C	14.0
Preheating temp.	1650 – 1740 °F/900 – 950 °C
Casting temperature	2642 °F / 1450 °C
Melting interval	2408–2489 °F/1320–1365 °C
Modulus of elasticity [GPa]	approx. 200
Elongation limit ($R_{p0,2}$) [MPa]	340
Tensile strength (R m) [MPa]	620
Ductile yield (A_5) [%]	50
Vickers hardness (HV10)	190
Composition in % by mass: Ni 65.2 · Cr 22.5 · Mo 9.5 · Nb, Si, Fe, Mn each < 1	
Availability:	**REF**
Wirocer plus	
1 pack = 35 oz / 1000 g	50080
1 pack = 5 oz / 140 g	50082
1 pack = 1 oz / 28 g	50081
Accessories:	
Wiroweld NC, Ni-Cr laser wire, free of carbon:	
∅ 0.35 mm, 1 pack = 5.5 m	50006
Wiron® soldering rods, 1 pack = 5 g	52625
WGL solder, 1 pack = 5 g	61079
Brochure	82728
Certificate	82723

CE 0197 ISO 22674 · ISO 9693

The appropriate solders:

Wirobond® solder

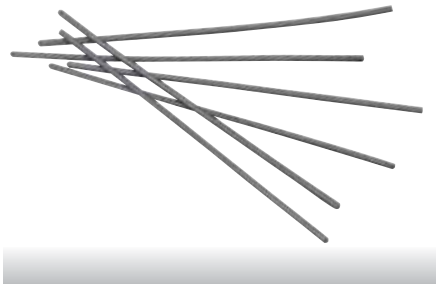


Soldering rods for Wirobond® alloys

Characteristics:	
Melting interval	1100 – 1150 °C
Soldering temperature	1180 °C
Flux	Fluxsol
Composition in % by mass: Co 60.5 · Cr 28.5 · Si 4.5 · Mo 3 · Fe 1.5 · B 1.5 · C	
Availability:	**REF**
1 pack = 8 pieces (triangular) ▲	52622

CE 0197

Wiron® solder

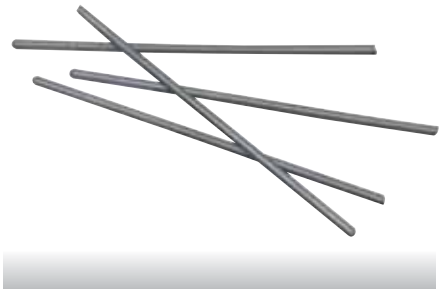


Soldering rods for all BEGO nickel-chrome alloys

Characteristics:	
Melting interval	1020 – 1150 °C
Soldering temperature	1165 °C
Flux	Fluxsol
Composition in % by mass: Ni 66 · Cr 19 · Mo 5.5 · Fe 5 · Si 3.5 · B	
Availability:	**REF**
1 pack = 6 pieces (round) ●	52625

CE 0197

Cobalt-chrome solder



Soldering rods for all cobalt-chrome partial denture alloys

Characteristics:	
Melting interval	1100 – 1150 °C
Soldering temperature	1180 °C
Flux	Fluxsol
Composition in % by mass: Co 61 · Cr 28.5 · Mo 3.5 · Si 4 · Fe 1.5 · B · C	
Availability:	**REF**
1 pack = 5 pieces (half-round) ◗	52520

CE 0197

TEXTBOOKS FOR PARTIAL DENTURES

Written for ambitious dental technicians with a love for details

Precision Milling and Partial Denture Constructions

Modern Design · Efficient Production

> Manual for dental laboratories and dental practices geared to prosthodontics
> Ideal for preparing the Master Dental Technician exam
> Practice-oriented guide and reference book
> Partial denture restoration with telescope constructions and clasp-anchored tooth replacement
> Systematic planning and designing
> Efficient dental production
> Various stages of restoration with partial denture techniques
> Clear step-by-step presentation of important procedures
> Historical retrospect
> Appendix with information on materials
> Many practical tips for users
> Processing errors and their consequences

Author: Henning Wulfes

- 280 pages
- 210 x 260 mm
- Glossy print
- Approx. 1000 colour illustrations
- Hardcover
- **German edition · REF 88894**
- **English edition · REF 88895**
- **Russian edition · REF 88896**

Telescopic Double Crowns

Individual Solutions · Practical and Economical

> Manual for dental laboratories and dental practices
> Ideal for familiarization with the subject of telescopic double crowns
> Practice-oriented guide and reference book
> Detailed information regarding planning and designing
> Efficient dental manufacturing
> Clear step-by-step presentation of important procedures
> Troubleshooting and error prevention
> Many practical tips for users

Author: Team of authors of BEGO Training Center and academia • dental

- 100 pages
- 210 x 260 mm
- Glossy print
- Approx. 300 color illustrations
- Hardcover
- **German edition · REF 88870**
- **English edition · REF 88876**
- **Russian edition · REF 88875**

Wironit® LA

Consistent further development

Quality speaks for itself

> Wironit® LA – universally applicable for clasp partial dentures and combination work

> Excellent laser welding properties for high-strength joints, even in extreme situations

> Outstanding physical and chemical properties with fine-grained tantalum for a homogeneous structure

> Easy to process in BEGO's partial denture system

> With certificate regarding additional biological material tests at independent institutes

Alloy characteristics:	standard values
Type (ISO 22674)*	5
Density [g/cm³]	8.2
Preheating temperature	1740 – 1920 °F / 950 – 1050 °C
Casting temperature	approx. 2642 °F / 1450 °C
Melting interval	2372 – 2445 °F / 1300 – 1340 °C
Modulus of elasticity [GPa]	approx. 220
Elongation limit ($R_{p0,2}$) [MPa]	640
Tensile strength (Rm) [MPa]	940
Ductile yield (A_5) [%]	8
Vickers hardness (HV10)	360

CE 0197 ISO 22674

*The various types are shown on page 40

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Composition in % by mass:

Wironit® LA
Co 63.5 · Cr 29 · Mo 5 · Si 1.2 · Mn, N, C, Ta each < 1

Availability:	Unit	Content	**REF**
Wironit® LA	1 pack	35 oz / 1000 g	50100
	1 pack	9 oz / 250 g	50103
Accessories:			
Wiroweld, Co-Cr laser wire, containing no carbon:			
∅ 0.35 mm	1 pack	79“ / 2 m	50003
∅ 0.5 mm	1 pack	59“ / 1.5 m	50005
∅ 0.5 mm	1 pack	79“ / 2 m	50009
Cobalt-chrome solder	1 pack	5 g	52520
Brochure			81671
Certificate			82645

Corresponding product

WiroFine universal investment · REF: 54345 (Page 33)
A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating.

Wironit® LA:
During wax-up, the casting funnel former must be positioned 10 mm above the highest point of the wax-up, to avoid the risk of defects in the cast object.

For BEGO courses on cobalt chrome work please go to: www.bego.com

Wironit®

The classical partial denture alloy for clasp prosthesis

Successful all over the world since 1953. No permanent deformation in clasps. Easy to activate.

Alloy characteristics:	standard values
Type (ISO 22674)	5
Density [g/cm³]	8.2
Preheating temperature	1740 – 1920 °F 950 – 1050 °C
Casting temperature	approx. 2660 °F 1460 °C
Melting interval	2408 – 2462 °F 1320 – 1350 °C
Modulus of elasticity [GPa]	approx. 211
Elongation limit ($R_{p0,2}$) [MPa]	600
Tensile strength (Rm) [MPa]	880
Ductile yield (A_5) [%]	6.2
Vickers hardness (HV10)	350
Composition in % by mass: Co 64 · Cr 28.6 · Mo 5 · Si 1 · Mn, C each < 1	
Availability:	**REF**
Wironit® 1 pack = 35 oz / 1000 g	50030
1 pack = 9 oz / 250 g	50020
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon: ∅ 0.35 mm, 1 pack = 2 m	50003
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.5 mm, 1 pack = 2 m	50009
Cobalt-chrome solder, 1 pack = 5 g	52520
Certificate	82614

CE 0197 ISO 22674

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Wironit® extra-hard

The ideal partial denture alloy for combination work

Due to a higher ductile yield and tensile strength, harder and somewhat more rigid than Wironit®: ideal for combination work.

Alloy characteristics:	standard values
Type (ISO 22674)	5
Density [g/cm³]	8.2
Preheating temperature	1740 – 1920 °F 950 – 1050 °C
Casting temperature	approx. 2588 °F 1420 °C
Melting interval	2300 – 2381 °F 1260 – 1305 °C
Modulus of elasticity [GPa]	225
Elongation limit ($R_{p0,2}$) [MPa]	625
Tensile strength (Rm) [MPa]	910
Ductile yield (A_5) [%]	4.1
Vickers hardness (HV10)	375
Composition in % by mass: Co 63 · Cr 30 · Mo 5 · Si 1.1 · Mn, C each < 1	
Availability:	**REF**
Wironit® extra-hard 1 pack = 35 oz / 1000 g	50060
1 pack = 9 oz / 250 g	50050
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon: ∅ 0.35 mm, 1 pack = 2 m	50003
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.5 mm, 1 pack = 2 m	50009
Cobalt-chrome solder, 1 pack = 5 g	52520
Certificate	82593

CE 0197 ISO 22674

*The various types are shown on page 40

Wironit®-clasp wire

Flexible steel design for acrylic work and regulations.

Composition in % by mass: Fe 67 · Cr 19 · Ni 10 · Mo 4	
Availability:	**REF**
1 roll, round ∅ 22 gauge/0.6 mm = 131 ft/40 m	48220
∅ 21 gauge/0.7 mm = 98 ft/30 m	48250
∅ 20 gauge/0.8 mm = 65 ft/20 m	48280
∅ 19 gauge/0.9 mm = 33 ft/10 m	48310
∅ 18 gauge/1.0 mm = 33 ft/10 m	48340
1 roll, half-round 0.65 x 1.30 mm = 33 ft/10 m	48430
0.75 x 1.50 mm = 33 ft/10 m	48460

CE 0197

WIRONIUM® plus

Cobalt-chrome partial denture alloy

Partial dentures par excellence

> Universal alloy for combination work and partial dentures

> Consistent further development of top-rate alloy WIRONIUM®

> Increased proof stress, tensile strength and high elongation at rupture ensure precision with fixed-removable dentures and clasp-retained dentures

> Outstanding physical properties provide reliability against elastic and plastic deformation

> Biocompatibility tested by a third party institute

Alloy characteristics:	standard values
Type (ISO 22674)*	5
Density [g/cm³]	8.4
Preheating temperature	1740 – 1920 °F / 950 – 1050 °C
Casting temperature	approx. 2624 °F / 1440 °C
Melting interval	2390 – 2453 °F / 1310 – 1345 °C
Modulus of elasticity [GPa]	approx. 220
Elongation limit ($R_{p0,2}$) [MPa]	700
Tensile strength (Rm) [MPa]	1000
Ductile yield (A_5) [%]	10
Vickers hardness (HV10)	340

CE 0197 ISO 22674

*The various types are shown on page 40

You will find the detailed brochure, work instructions and biocertificate as a download file in the Service section at www.bego.com.

Composition in % by mass:			
WIRONIUM® plus			
Co 62.5 · Cr 29.5 · Mo 5 · Si, Mn, Fe, Ta, N, C each < 1			
Availability:	Unit	Content	**REF**
WIRONIUM® plus (only supplied to I.W.C. laboratories)	1 pack	35 oz / 1000 g	50190
Accessories:			
Wiroweld, Co-Cr laser wire, containing no carbon:			
∅ 0.35 mm	1 pack	79“ / 2 m	50003
∅ 0.5 mm	1 pack	59“ / 1.5 m	50005
∅ 0.5 mm	1 pack	79“ / 2 m	50009
Cobalt-chrome solder	1 pack	5 g	52520
Brochure			81352
Certificate			82591

Corresponding product

WiroFine universal investment · REF: 54345 (Page 33)
A universal investment for all indications in cast partial denture and fixed/ removable work, for gel or silicone duplication, speed or conventional heating.

WIRONIUM® plus:

With particularly slender partial denture constructions, inaccessible areas should be polished with a handpiece brush to prevent deformations and avoid material reduction at unplanned points on the cast object.

WIRONIUM®

Cobalt-chrome partial denture alloy

Top-rate alloy, tried and tested worldwide, with above-average mechanical properties: excellently suited for laser welding with Wiroweld thanks to reduced carbon concentration. Biocompatibility tested by a neutral third party institute.

Alloy characteristics:	standard values
Type (ISO 22674)*	5
Density [g/cm³]	8.4
Preheating temperature	1740 – 1920 °F 950 – 1050 °C
Casting temperature	approx. 2624 °F 1440 °C
Melting interval	2408 – 2444 °F 1320 – 1340 °C
Modulus of elasticity [GPa]	approx. 216
Elongation limit ($R_{p0,2}$) [MPa]	650
Tensile strength (Rm) [MPa]	940
Ductile yield (A_5) [%]	12
Vickers hardness (HV10)	330
Composition in % by mass: Co 63 · Cr 29.5 · Mo 5 · Si 1 · Mn, Fe, N, C each < 1	
Availability:	**REF**
WIRONIUM® 1 pack = 1000 g (is only supplied to I.W.C. laboratories)	50065
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon: ∅ 0.35 mm, 1 pack = 2 m	50003
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.5 mm, 1 pack = 2 m	50009
Cobalt-chrome solder, 1 pack = 5 g	52520
Certificate	82652

CE 0197 ISO 22674

WIRONIUM® extra-hard

Cobalt-chrome partial denture alloy

The sensible alternative whenever an alloy with greater strength and a somewhat lower elongation limit is required. Excellently suited for laser welding with Wiroweld thanks to reduced carbon concentration. Biocompatibility tested by a neutral third party institute.

Alloy characteristics:	standard values
Type (ISO 22674)*	5
Density [g/cm³]	8.4
Preheating temperature	1740 – 1920 °F 950 – 1050 °C
Casting temperature	approx. 2642 °F 1450 °C
Melting interval	2426 – 2462 °F 1330 – 1350 °C
Modulus of elasticity [GPa]	approx. 220
Elongation limit ($R_{p0,2}$) [MPa]	670
Tensile strength (Rm) [MPa]	970
Ductile yield (A_5) [%]	7.5
Vickers hardness (HV10)	350
Composition in % by mass: Co 61 · Cr 30 · Mo 5 · Mn 2 · Si, Fe, N, C each < 1	
Availability:	**REF**
WIRONIUM® extra-hard 1 pack = 1000 g (is only supplied to I.W.C. laboratories)	50175
Accessories:	
Wiroweld, Co-Cr laser wire, containing no carbon: ∅ 0.35 mm, 1 pack = 2 m	50003
∅ 0.5 mm, 1 pack = 1.5 m	50005
∅ 0.5 mm, 1 pack = 2 m	50009
Cobalt-chrome solder, 1 pack = 5 g	52520
Certificate	82653

CE 0197 ISO 22674

*The various types are shown on page 40

Talmi

Dental training metal

Talmi is a yellow alloy, **not for long-term oral cavity usage**, used for cost-efficient training work or demonstration pieces. The mechanical characteristics and processing properties are comparable to those of a Type 2 gold casting alloy. Talmi can be melted and cast with all casting devices.

Alloy characteristics:	standard values
Density [g/cm³]	8.8
Preheating temperature	1290 °F 700 °C
Casting temperature	approx. 2192 °F 1200 °C
Melting interval	1580 – 1850 °F 860 – 1010 °C
Modulus of elasticity [GPa]	95
Elongation limit ($Rp_{0,2}$) [MPa]	250
Ductile yield (A_5) [%]	50
Vickers hardness (HV5)	120
Soft annealing [°C]	750
10 min, then quenching in water at 20 °C	
Composition in % by mass: Cu 87 · Sn 12 · Co 1	
Availability:	**REF**
Talmi 1 g	50220
Accessories:	
Talmi solder 1292 °F / 700 °C 1 roll = 3 g	50221

I.W.C. – INTERNATIONAL WIRONIUM®-CIRCLE

Casting WIRONIUM® with the Nautilus® CC plus

> A symbol that generates confidence
> A worldwide mark of quality
> A quality association of leading dental laboratories

The philosophy

The INTERNATIONAL WIRONIUM® CIRCLE – or I.W.C. for short – is a worldwide association of leading dental laboratories, which all share a common aim: **the production of first-class dental laboratory work using top-quality materials.**

The alloys

WIRONIUM®, WIRONIUM® plus and WIRONIUM® extra-hard are cobalt-chrome alloys for all aspects of the partial denture technique.
Biocompatibility thanks to selected high-purity alloy components and deformation-resistant prosthetics, which can withstand even extreme masticatory loads. From the clinical viewpoint, the quality of the WIRONIUM® alloys is the basis of perfect solutions – in both technical and aesthetic terms – for an extremely wide variety of cases.

The system

The WIRONIUM® alloys are used in a specific and precisely coordinated material chain, in accordance with the successful BEGO partial denture system.
The advantage for you: partial dentures made from WIRONIUM® offers an impressively accurate fit even with slender design and give the patient the certainty of reliable function, wearing comfort and long service life.

The know-how

The I.W.C. quality symbol indicates to the dentist that your laboratory is constantly expanding its know-how and employs the latest materials and equipment.

PREHEATING AND CASTING

NEW! > **Nautilus® CC plus**
Automatic vacuum pressure casting machine

> **Termico**
Cooling water circulation unit

> **Compressed air tank**
for Nautilus® T/CC plus

> **Fornax® T**
Induction casting machine

> **Miditherm 100/200 MP**
Preheating furnaces

> **Regulus**
Furnace extraction

> **Fundor T**
Benchtop casting machine

> **Melting crucibles**

> **Melting powder:**
Auromelt HF
Wiromelt

Today, an optimum casting result is programmable, but it can also be achieved through individual know-how and substantial practical experience. BEGO supports the desired application by means of automatically controlled preheating with Miditherm and programmed casting with Nautilus®. Fornax® and Miditherm are ideal for individual procedures. At the same time, the BEGO system assists you – from model preparation right through to actual casting.

Nautilus® CC plus

NEW! Now includes an integrated cooling system

Intelligent casting with data interface

> The integrated cooling system allows at least 30 castings to be carried out in a row, even at high ambient temperatures

> Programmable, automatic casting procedure for consistent, reproducible results every time with each casting

> Casting point detection with a dual-channel pyrometer ensures that the framework is cast at the temperature recommended by the alloy manufacturer

> The casting point can also be controlled manually with the display of the casting temperature and allows full control of the casting procedure

> Data interfaces, CastControl and NautiCard enable easy programming of new alloys, free software updates and a service diagnoses for quick support when servicing

> Nautilus® CC plus stores up to 640 casting logs, which can be transferred on your PC for quality assurance

> The high-performance induction heating ensures short melting cycles, minimizes oxidation and therefore facilitates finishing time

> Suitable for all commercially available precious and non-precious metal alloys (except titanium) that do not contain Beryllium

Chipdrive + CastControl*

Compressed air tank

Corresponding product

Nautilus® crucibles · REF: 52488 (Page 57)
corresponding crucible handles and crucible inserts

Nautilus® CC plus:

The Nautilus® casting crucible principle enables the liquidus temperature to be exceeded by less than with other casting systems because the melt flows from the hot region of the crucible directly into the casting mould below.

Technical data:	
Height	17” / 420 mm
Height with optical waveguide	26” / 650 mm
Width	28” / 700 mm
Depth	26.5” / 665 mm
Rated voltage	230 V, 50/60 Hz
Special voltages	200 – 240 V, 50/60 Hz
Power at rated voltage of 230 V	16 A
Compressed air connection (Connection thread 1/4“)	at least 75 psi / 5 bar (0,5 [MPa])
Air consumption	approx. 100 l/min
Water supply (connection thread 3/4“)	at least 2 l/min
Water discharge	wash-basin or siphon
Weight	155 lbs / 70 kg
*Laptop is not included in the scope of delivery	

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Availability and accessories:	Unit	Pieces	REF
Scope of delivery:			
Nautilus® CC plus, 230 V, 50/60 Hz	piece	1	26355
NautiCard	1 pack	3	16265
Card reader and writer external	1 pack	1	16266
BEGO CastControl	1 pack	1 CD	16259
Ceramic crucible (with 2 halves each)	1 pack	4	52488
Plastic handles for ceramic crucibles	1 pack	2	52436
Ceramic handles for ceramic crucible	1 pack	2	52467
Graphite inserts	1 pack	2	52468
Glass carbon inserts	1 pack	1	52473
Tweezers		1	30002
Mould holder plate, ceramic		1	30259
Mould holder (ceramic) for sizes 1 and 9	1		12257
Mould holder (ceramic) for sizes 3 and 6	1		13362
Mould holder grid for partial denture work (25 mm high)	1		37618
Mould holder grid for partial denture work (15 mm high)	1		10073
Auromelt HF melting powder	1 dispenser for 65 g		52525
Base socket mould former size 3, 6 and 9		1 piece each	
Partial denture funnel former		1	
Accessories:			
Compressed air tank with wall bracket			16260
Printer for casting logs	1 pack	1	16267
Mould tongs, 55 cm long		1	39754
Glass carbon cylinder	1 pack	4	52473
Base socket mould former, size 3, 6, 9 = 1 set, 4 pieces			52627,52628,52629
Partial denture funnel former	1 pack	10	52066
Wiromelt melting powder (non-precious metal)	tin, 80 g	1	52526
Special steel shelf compl., for casting utensils	1 set		52469
Brochure			82745

With the BEGO vacuum pressure casting method, the alloy quantity can be limited to the volume of the cast object, including the feed sprues and connecting channels plus reservoir. As a rule, no casting cone is required.

Termico

Fornax® T

The compact casting machine with induction melting device

The Fornax® with benchtop design

> Compact benchtop centrifugal casting machine with high-performance induction heating ensures short melting cycles, minimizes oxidation and therefore facilitates subsequent preparation

> Casting temperature of up to 1550°C: ideal for all commercially available dental alloys (except titanium)

> User-friendly operating panel with display and soft keys

> High output reserves with low power consumption of just 16 amps

> Cooling by direct connection to water feed and outlet or with BEGO circulation unit

> Heating-level switch for ceramic or graphite crucible

> Simple mechanism allows for very easy setting of different size of casting rings for quick processing, even with different size moulds

> Automatic cooling water shut-off saves water and resources and protects the environment

Technical data:	
Height	17.5” / 440 mm
Height with cover open	38” / 965 mm
Width	31” / 785 mm
Depth	25” / 625 mm
Depth with cover open	26” / 650 mm
Rated voltage	230 V, 50/60 Hz
Special voltages	200 – 240 V, 50/60 Hz
Current consumption	approx. 16 A
Induction melting power	3.6 kVA, 65 kHz
Water supply + discharge	approx. 2 l/min, 3/4“
Weight	176 lbs / 80 kg
Termico Cooling water circulation unit	
Height	18” / 450 mm
Width	15” / 390 mm
Depth	19.5” / 490 mm
Power at rated voltage of 230 V, 50/60 Hz	0.3 kW
Weight empty/filled with 30 l	approx. 33/99 lbs · 15/45 kg

CE

Scope of delivery:	Unit	Pieces	**REF**
Fornax® T 230 V, 50/60 Hz	piece	1	26300
Ceramic melting crucible	1 pack	6	52482
Graphite inserts	1 pack	6	52454
Ceramic inserts for ceramic melting crucible	1 pack	6	52455
Base socket mould former size 3, 6 and 9		1 each	
Auromelt HF melting powder	1 dispenser à 2.3 oz / 65 g		52525
Accessories:			
Termico Cooling water circulation unit			26230
Base socket mould former, size 3	1 set	4	52627
size 6	1 set	4	52628
size 9	1 set	4	52629
Mould tongs, 64 cm long		1	11599
Mould tongs, 55 cm long		1	39754
Fornax® service box		1	25337
Wiromelt melting powder (for non-precious) tin, 80 g		1	52526
Brochure			82960

Corresponding product

Fornax® crucible · REF: 52482 (Page 58)
and crucible inserts

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Miditherm 100/200 MP

Microprocessor-controlled preheating furnaces for crowns, bridges and partial dentures

The right preheating furnace in the right size for every requirement

Miditherm 100 MP

Regulus furnace extraction system

> Monitoring of the temperature using a microprocessor in combination with a precision thermocouple ensures that there are no miscasts due to the casting rings being at the incorrect temperature

> Four-zone heating, with a max. temperature of 2012 °F / 1100 °C, guarantees uniform heating of the casting rings and consistent results during casting

> The heating elements are embedded in robust industrial ceramic – for increased reliability and a longevity

> Maximum capacity of the mould chamber:

100 MP: 12 x 1 1/4“ rings
4 x BEGO large mould former, blue

200 MP: 32 x 1 1/4“ rings
9 x BEGO large mould former, blue

> Flexible programming with 4 programmable holding stages per program, infinite variable selection of the heat rate from 1-17 °F / 1-9 °C/Min and 1 speed program reliably covers all applications in CrCo and crown and bridge work

Technical data:			
Miditherm		**100 MP**	**200 MP**
Height		19“ / 480 mm	24“ / 600 mm
Width		14“ / 350 mm	19“ / 470 mm
Depth		16“ / 420 mm	22“ / 550 mm
Mould chamber	Height	4“ / 95 mm	4“ / 100 mm
	Width	6“ / 150 mm	8“ / 200 mm
	Depth	7“ / 180 mm	10“ / 250 mm
Rated voltage		100 – 120 V, 50/60 Hz	200 – 240 V, 50/60 Hz
Special voltages		200 – 240 V, 50/60 Hz,	
Power at rated voltage of		230 V 1,600 W	2,700 W
Temperature		max. 2012 °F / 1100 °C	max. 2012 °F / 1100 °C
Weight		approx. 62 lbs / 28 kg	approx. 124 lbs / 56 kg
Regulus			
Height			23“ / 570 mm
Width			5“ / 125 mm
Depth			4.5“ / 110 mm
Rated voltage			220-240 V, 50/60 Hz
Weight			6 lbs / 2.8 kg

Availability:	Unit	Pieces	**REF**
Miditherm 100 MP with ceramic base plate	piece	1	26150
Miditherm 200 MP with ceramic base plate	piece	1	26155
Accessories:			
Ceramic base plate for Miditherm 100		1	34954
Ceramic base plate for Miditherm 200		1	13984
Thermocouple for Miditherm 100/200	1 pack	2	14087
Extraction pipe for Miditherm 100/200, short		1	35544
Spare heating mould for Miditherm 100		1	34956
Spare heating mould for Miditherm 200		1	13985
Regulus furnace extraction system			25750

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Fundor T

Robust benchtop centrifugal casting machine for flame melting

- > Casting of all dental alloys (except titanium)
- > Rugged, maintenance-free motor with long service life
- > Double-jointed arm enables constant casting quality
- > Infinitely variable starting speed
- > Quick-clamping device for fast and secure insertion of crucibles and moulds
- > Durable ceramic melting crucible for all alloys
- > High degree of safety thanks to cover lock
- > High degree of stability: additional fastening devices not necessary
- > Precision-adjustable casting ring holder for effective, quick processing, even with different sizes of mould

Technical data:	
Height	10.5“ / 260 mm
Height with cover open	34“ / 850 mm
Width	31“ / 770 mm
Depth	26“ / 650 mm
Rated voltage	200 – 240 V, 50/60 Hz
Power at rated voltage of 230 V	600 W
Speed	approx. 400 rpm
Weight	approx. 100 lbs / 45 kg

CE

Corresponding product

Fundor crucible · REF: 52425 (Page 58)

Availability:	Unit	Pieces	REF
Fundor T with 1 safety glasses, 3 precious-metal melting crucibles, 3 combination melting crucibles, 1 dispenser Auromelt HF, casting mould former, sizes 3, 6 and 9, 1 each	piece	1	25025
Accessories:			
Safety glasses		1	15409
Precious-metal melting crucible	1 pack	6	52425
Combination melting crucible	1 pack	6	52426
Auromelt HF melting powder	1 dispenser for 65 g		52525
Base socket mould former, size 3	1 Satz	4	52627
size 6	1 Satz	4	52628
size 9	1 Satz	4	52629
Brochure			81313

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Nautilus® ceramic melting crucible FC

made from new, innovative special ceramic

Three-dimensional mark IR 914028

Nautilus® FC ceramic crucibles are made from an innovative development of a special ceramic that is resistant to high temperature and has many advantages compared to standard crucible ceramic. The extremely homogeneous structure of the ceramic contributes to the consistently reproducible accuracy of castings. Exceptionally smooth ceramic surfaces facilitate the flow of molten metal. The high resistance to thermal fluctuations guarantees that Nautilus® FC ceramic crucibles have a long service life.

Availability:	REF
1 pack = 4 pieces	52488

Ceramic handles

for Nautilus® ceramic crucibles

Availability:	REF
1 pack = 2 pieces	52467

Plastic handles

for Nautilus® ceramic crucibles

Availability:	REF
1 pack = 2 pieces	52436

Graphite inserts

for Nautilus® ceramic melting crucibles

Nautilus® T/CC/CC plus

Availability:	REF
1 pack = 6 pieces	52468

Glass carbon inserts

for Nautilus®-ceramic melting crucibles

Nautilus® T/CC/CC plus

For the melting of precious metal alloys including alloys with high palladium content.

Availability:	REF
1 pack = 4 pieces	52473

Lolipot

Crucible engobe for Fornax®- and Nautilus® ceramic melting crucibles

This prolongs the life of the crucible and reduces casting residues in the melting crucible.

Availability:	REF
Pressure pulverizer 100 ml	52477

New BEGO ceramic crucibles for Fornax® and Nautilus®

The BEGO ceramic crucibles for Fornax® and Nautilus® set the most exacting standards.

An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits:

> extremely homogeneous material structures,

> consistently reproducible accuracy of fabrication,

> exceptionally smooth ceramic surface, which facilitates discharge of the melt,

> high thermal shock resistance, which ensures a long useful life. The new material is resilient enough to withstand even aggressive alloys.

When calculating cost per casting, the useful life of the crucible must be taken into account in addition to its purchase price. The BEGO ceramic crucibles for Fornax® and Nautilus® set a new benchmark for cost-efficient casting. To make sure that you only purchase genuine BEGO crucibles, check that they have an extremely smooth surface and bear the engraved BEGO logo.

Fornax® ceramic melting crucibles FC

made from new, innovative special ceramic

The new BEGO ceramic crucibles for Fornax® set the highest standards. An innovative manufacturing procedure for crucibles that are resistant to high temperature, developed in cooperation with scientific institutes, produces an extremely homogeneous material structure contributing to consistently reproducible accuracy of castings. The exceptionally smooth inner surface of the ceramic crucible facilitates the flow of the molten metal. The high resistance of the new material to thermal fluctuations guarantees a long service life. The new material is sufficiently resistant to withstand aggressive alloys.

Availability:	REF
1 pack = 6 pieces	52482

Graphite inserts

for Fornax® crucibles

Availability:	REF
1 pack = 6 pieces	52454

Ceramic inserts

for Fornax® ceramic melting crucibles

Availability:	REF
1 pack = 6 pieces	52455

Fornax® G ceramic tilting crucibles

for melting of precious metal alloys

Availability:	REF
1 pack = 3 pieces	52431

Graphite inserts

for Fornax® ceramic tilting crucibles

Availability:	REF
1 pack = 6 pieces	52432

Ceramic crucibles

for torche melting

The melting crucibles are made of special ceramic material and have a long service life through a high heat change resistance.

Availability:	REF
Melting crucible, shallow trough, for cobalt-chrome partial denture alloys and non-precious alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm, 1 pack = 6 pieces	52426

Ceramic crucibles

for torche melting

The melting crucibles are made of special ceramic material and have a long service life through a high heat change resistance.

Availability:	REF
Melting crucible, deep trough, forprecious-metal alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm, 1 pack = 6 pieces	52425

Auromelt HF

Melting powder

Suitable for all melting processes and for all precious-metal and precious-metal-reduced alloys that have to be melted in the ceramic crucible with melting powder. It prevents the formation of oxide, even at low melting temperatures and in cold sections of the ceramic crucible.

Availability:	REF
1 dispenser = 65 g	52525

Wiromelt

Melting powder

For melting Wiron® and Wirobond® alloys in Nautilus® and other casting units. Prevents the formation of oxide and facilitates the detection of the correct casting moment.

Availability:	REF
1 dispenser = 80 g	52526

VENEERING METAL PRESSABLE-CERAMICS

BeCe PRESS facilitates fabrication of aesthetic veneer porcelain restorations. The fabrication procedure for pressing on metal and zirconia frameworks requires only a brief training period, even for dental technicians who are not specialised in porcelain restoration work.
The BeCe PRESS system is suitable for areas of porcelain application and the range of porcelains has been optimised to ensure cost-effectiveness, without restricting the aesthetics. All 16 Vita shades can be reproduced in minimal time and to a consistent quality.

> BeCe PRESS
Metal press ceramic system

Opaquer
NEW! **• Opaque Paste Bleach**

Press-Ingots
NEW! **• Press-Ingot Bleach CP**

Correction Material
NEW! **• Correction Material Bleach CP**

Individual porcelains

Liquids

Stain

Glaze

Shadeguides

> BeCe PRESS Z
Zirconia
Pressable ceramic system

Liner

Press-Ingots
NEW! **• Press-Ingot CPZ Bleach**

Correction Material
NEW! **• Correction Material CPZ Bleach**

Individual porcelains

Liquids

Stain

Glaze

Shadeguides

> Accessories

SecuPress ring system

Single-use press plungers

BeCe PRESS Metal
PRESSABLE CERAMIC SYSTEM

The “3-in-1” ceramic

> cost-effective pressing on of precious and non-precious metal alloy frameworks
> produces high-quality aesthetics for the press-on and customized build-up of metal-based restorations
> pressing of inlays, onlays and veneers as well as anterior and premolar crowns to reproduce the wax pattern
> particularly cost-effective when using BeCe Wax-up means flexibility with reproducible quality

BeCe PRESS Test-Kit for the staining technique

The test kit contains all the components required for fabrication of shade A3 restorations

Availability:	REF
BeCe PRESS Test Kit 1 set, contains:	70004
1 x BeCe PRESS Metal Pressable Ceramic System instructions for use	
Press ingot CP 3.5 x 2 g	
Opaque paste A3, 4 g	
Glaze paste, 3 g	
Liquid stain/glaze, 25 ml	
Stain fluor. paste shade A, white, blue, 3 g each	
FC sculpting wax Navajo white, 7 g	
Bellavest® SH 100 g portion bag, 10 bags	
BegoSol® HE, 250 ml	
Single-use press plungers for 2 g, 5 plungers	
Wirobond® 280 non-precious bonding alloy,	

BeCe PRESS Start-Kit for the staining technique

The starter kit contains all materials required for reproducing the most important V shades:
A2, A3, A3.5, B2, B3 and D3.

Availability:	REF
BeCe PRESS Start-Kit 1 set, comprising:	70003
BeCe PRESS Metal Pressable Ceramic System, 1 piece	
Opaque Pastes A2, A3, A3.5, B2, B3, D3, 4 g each	
Liquid Opaque Paste, 25 ml	
Correction Materials CP2, CP3, CP4, CP6, 4 g each	
Fluor. Stain Pastes, shades: violet, orange, full-orange, pretty-brown, black, white, sand, yellow, blue, 3 g each	
Stain Opaque Pastes, shades: slate-grey, dark-khaki, dark-brown, 3 g each	
Fluor. Stain Pastes, shades: A, B, D, 3 g each	
Glaze Paste, 3 g	
Liquid Stain/Glaze, 25 ml	
Modelling Liquid, 25 ml	
Press Ingots CP2, CP 3, CP 4, CP 6, 5 x 2 g each	
Disposable Plunger for 2 g ingots, 20 pieces	
Shade Guide Stain/Press Ingot, 1 piece	
Bellavest SH bags, 10 x 100 g	
BegoSol HE, 250 ml	
SecuPress Mould System, 200 g/12 mm, 1 piece	

BeCe PRESS Individual Start-Kit for the press build-up technique

The Individual start kit contains all the components required for the fabrication of restorations in the popular shades: A2, A3, A3.5, B2, B3 and D3

Availability:	REF
BeCe PRESS Individual Start-Kit 1 set, comprising:	70021
BeCe PRESS Metal Pressable Ceramic System, 1 piece	
Press Ingots CPO2, CPO3, CPO4, CPO6, 5 x 2 g each	
Correction Materials CPO2, CPO3, CPO4, CPO6, 4 g each	
Correction Material LF clear, LF Enamel, 4 g each	
Individual Opaquer violet, orange-brown, brown, white, pink, 4 g each	
Enamel 2, 3, 4, 20 g each	
Transpa orange, amber, blue, grey, pink, clear, 20 g each	
Opal Incisal 1 and 2, 20 g each	
Modifier orange, brown, white, 20 g each	
Gingiva 1 and 2, 20 g each	
Liquid Stain/Glaze, 25 ml	
Liquid Modelling, 25 ml	
Liquid Opaque Paste, 25 ml	
Shade guide 1/ Shade guide 2, 1 piece each	

Opaque Paste

BeCe PRESS Opaque Paste exhibits high masking power even in thin layers and is remarkably easy and economical to use. The paste retains its thixotropic properties for longer time due to it's special presentation in a glass tub.

Availability:		REF
Opaque Paste A 1	4 g	70100
Opaque Paste A 2	4 g	70101
Opaque Paste A 3	4 g	70102
Opaque Paste A 3,5	4 g	70103
Opaque Paste A 4	4 g	70104
Opaque Paste B 1	4 g	70105
Opaque Paste B 2	4 g	70106
Opaque Paste B 3	4 g	70107
Opaque Paste B 4	4 g	70108
Opaque Paste C 1	4 g	70109
Opaque Paste C 2	4 g	70110
Opaque Paste C 3	4 g	70111
Opaque Paste C 4	4 g	70112
Opaque Paste D 2	4 g	70113
Opaque Paste D 3	4 g	70114
Opaque Paste D 4	4 g	70115

Individual Opaquer Paste

For producing higher chromas or shade characterisation from deep inside the restoration, e.g. in the case of limited space availability. Used directly with the second opaque application.

Availability:			REF
Individual-Opaquer	white	4 g	70125
Individual-Opaquer	violet	4 g	70126
Individual-Opaquer	brown	4 g	70127
Individual-Opaquer	orange-brown	4 g	70128
Individual-Opaquer	pink	4 g	70129

Opaque Powder

Opaque Powder for use with BeCe PRESS – provides alternative handling properties to Opaque Paste. Especially recommended for alloys containing zinc.

Availability:		REF
Opaque Powder A 1	20 g	70200
Opaque Powder A 2	20 g	70201
Opaque Powder A 3	20 g	70202
Opaque Powder A 3,5	20 g	70203
Opaque Powder A 4	20 g	70204
Opaque Powder B 1	20 g	70205
Opaque Powder B 2	20 g	70206
Opaque Powder B 3	20 g	70207
Opaque Powder B 4	20 g	70208
Opaque Powder C 1	20 g	70209
Opaque Powder C 2	20 g	70210
Opaque Powder C 3	20 g	70211
Opaque Powder C 4	20 g	70212
Opaque Powder D 2	20 g	70213
Opaque Powder D 3	20 g	70214
Opaque Powder D 4	20 g	70215

Opaque Paste Bleach

Paste opaque specially tailored to the BeCe PRESS bleach shade.

Availability:		REF
Opaque Paste Bleach A 0	4 g	70150
Opaque Paste Bleach B 0	4 g	70151

Liquid Opaque Paste

Liquid opaquer for thinning BeCe PRESS Opaque Paste.

Availability:		REF
Liquid Opaque Paste	25 ml	70300
Liquid Opaque Paste	100 ml	70301

Liquid Opaque Powder

Liquid Opaquer for mixing BeCe PRESS opaque powder.

Availability:		REF
Liquid Opaque Powder	25 ml	70302
Liquid Opaque Powder	100 ml	70303

Press Ingot CP

BeCe PRESS Ingots recommended for the staining technique and for pressing all-ceramic inlays, onlays, veneers as well as anterior and premolar crowns. The ingots reproduce all 16 Vita shades with only 6 different coloured ingots. The two sizes of ingot (2 and 5 g) also provide maximum flexibility.

Availability:		REF
Press Ingot CP 1 (5 x 2 g)	1 pack	70600
Press Ingot CP 2 (5 x 2 g)	1 pack	70601
Press Ingot CP 3 (5 x 2 g)	1 pack	70602
Press Ingot CP 4 (5 x 2 g)	1 pack	70603
Press Ingot CP 5 (5 x 2 g)	1 pack	70604
Press Ingot CP 6 (5 x 2 g)	1 pack	70605
Press Ingot CP 1 (5 x 5 g)	1 pack	70610
Press Ingot CP 2 (5 x 5 g)	1 pack	70611
Press Ingot CP 3 (5 x 5 g)	1 pack	70612
Press Ingot CP 4 (5 x 5 g)	1 pack	70613
Press Ingot CP 5 (5 x 5 g)	1 pack	70614
Press Ingot CP 6 (5 x 5 g)	1 pack	70615

Correction Material CP

Matching correction porcelains are available for each ingot shade for adjustments to the pressed restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:		REF
Correction Material CP 1	4 g	70400
Correction Material CP 2	4 g	70401
Correction Material CP 3	4 g	70402
Correction Material CP 4	4 g	70403
Correction Material CP 5	4 g	70404
Correction Material CP 6	4 g	70405

Press Ingot Bleach CP

NEW!

Four bleach shades complement the system. The press ingots can be used both in the staining technique and in the press build-up technique.

Availability:		REF
Press Ingot Bleach CP A0	5 x 2 g	70620
Press Ingot Bleach CP A00	5 x 2 g	70621
Press Ingot Bleach CP B0	5 x 2 g	70622
Press Ingot Bleach CP B00	5 x 2 g	70623

Correction Material Bleach CP

NEW!

Matching correction porcelains are available for each ingot shade for adjustments to the pressed restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:		REF
Correction Material Bleach CP A0	4 g	70430
Correction Material Bleach CP A00	4 g	70431
Correction Material Bleach CP B0	4 g	70432
Correction Material Bleach CP B00	4 g	70433

Press Ingot CPO

Opaque press ingots available in 6 basic shades which reproduce all the vita shades. Recommended for pressing the dentine core in the press build-up technique or with limited space availability.

Availability:			REF
Press Ingot CPO 1	1 pack	5 x 2 g	70630
Press Ingot CPO 2	1 pack	5 x 2 g	70631
Press Ingot CPO 3	1 pack	5 x 2 g	70632
Press Ingot CPO 4	1 pack	5 x 2 g	70633
Press Ingot CPO 5	1 pack	5 x 2 g	70634
Press Ingot CPO 6	1 pack	5 x 2 g	70635
Press Ingot CPO 1	1 pack	5 x 5 g	70640
Press Ingot CPO 2	1 pack	5 x 5 g	70641
Press Ingot CPO 3	1 pack	5 x 5 g	70642
Press Ingot CPO 4	1 pack	5 x 5 g	70643
Press Ingot CPO 5	1 pack	5 x 5 g	70644
Press Ingot CPO 6	1 pack	5 x 5 g	70645

Correction Material CPO

Matching correction porcelains are available for each ingot shade for adjustments to the pressed restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:			REF
Correction Material	CPO 1	4 g	70410
Correction Material	CPO 2	4 g	70411
Correction Material	CPO 3	4 g	70412
Correction Material	CPO 4	4 g	70413
Correction Material	CPO 5	4 g	70414
Correction Material	CPO 6	4 g	70415

Correction Material LF

Low-fusing correction porcelain for any additions required after the glaze firing. Also suitable for customising the incisal section of inlays, onlays and veneers as well as anterior and premolar crowns.

Availability:		REF
Correction Material LF Clear	4 g	70440
Correction Material LF Enamel	4 g	70441

Liquid Modelling

Universal modelling liquid with high positional stability and excellent modelling properties for use with BeCe PRESS correction, build-up and individual porcelains.

Availability:		REF
Liquid Modelling	25 ml	70450
Liquid Modelling	100 ml	70451

Enamel

For enhancing the natural incisal section in the press build-up technique.

Availability:		REF
Enamel 1	20 g	70650
Enamel 2	20 g	70651
Enamel 3	20 g	70652
Enamel 4	20 g	70653

Transpa

Further special effects can be added to custom incisal build-ups by inlaying transparent zones. For example, Transpa blue can be used for creating optically pronounced marginal ridges on anterior teeth.

Availability:			REF
Transpa	orange	20 g	70660
Transpa	amber	20 g	70661
Transpa	blue	20 g	70662
Transpa	grey	20 g	70663
Transpa	pink	20 g	70664
Transpa	clear	20 g	70665

Opal Incisal

Opal Incisal is available in two grades and creates a naturally vital opalescent effect.

Availability:		REF
Opal Incisal 1	20 g	70670
Opal Incisal 2	20 g	70671

Modifier

These intensely shaded modifiers can be applied where only limited space is available or where special effects are required in the incisal region. The enamels and transparent materials can be mixed to provide for unlimited creativity.

Availability:			REF
Modifier	orange	4 g	70680
Modifier	brown	4 g	70681
Modifier	white	4 g	70682

Gingiva

Two naturally opaque gingival materials are available for building up gingival regions, particularly on implant-supported restorations or around pontics.

Availability:			REF
Gingiva	1	20 g	70675
Gingiva	2	20 g	70676

Stain Fluor. Paste Shade A-D

The fluorescent stains shades A-D in combination with the selected press ingot facilitate staining of the pressed restoration to the required Vita shade group.

Availability:		REF
Stain Fluor. Paste Shade A	3 g	70530
Stain Fluor. Paste Shade B	3 g	70531
Stain Fluor. Paste Shade C	3 g	70532
Stain Fluor. Paste Shade D	3 g	70533

Stain Fluor. Paste

To produce special shade characterization BeCe PRESS provides a comprehensive range of matching stains with a natural fluorescence for easy, customized shade creation.

Availability:		REF
Stain Fluor. Paste violet	3 g	70500
Stain Fluor. Paste orange	3 g	70501
Stain Fluor. Paste full-orange	3 g	70502
Stain Fluor. Paste pretty-brown	3 g	70504
Stain Fluor. Paste black	3 g	70505
Stain Fluor. Paste white	3 g	70506
Stain Fluor. Paste sand	3 g	70507
Stain Fluor. Paste yellow	3 g	70508
Stain Fluor. Paste blue	3 g	70509

Stain Opaque Paste

Opaque stains for characterization of highly discoloured teeth.

Availability:		REF
Stain Opaque Paste dark-khaki	3 g	70520
Stain Opaque Paste dark-brown	3 g	70521
Stain Opaque Paste slate-gray	3 g	70503

Glaze Paste

This easy-to-use, Glaze Paste creates a natural-looking glaze on BeCe PRESS restorations.

Availability:		REF
Glaze Paste	3 g	70540

Liquid Stain/Glaze

Liquid for use with BeCe PRESS Stain and Glaze materials.

Availability:		REF
Liquid Stain/Glaze	25 ml	70550
Liquid Stain/Glaze	100 ml	70551

Shadeguide Stain/ Press-Ingot CP

Shade guide for classification of the CP press ingots and stains.

Availability:		REF
Shadeguide Stain/ Press-Ingot CP	1 Stück	70350

Shadeguide

Shade guide for classification of Individual opaques, CPO press ingots, correction, incisal and Individual porcelains.

Availability:		REF
Shadeguide 1	1 Stück	70351
Shadeguide 2	1 Stück	70352

BeCe PRESS Zirconia
PRESSABLE CERAMIC SYSTEM

> accurate and aesthetic, no sinter shrinkage, controlled translucency ensures precision and reproducible highest quality

> a CTE that is stable during firing and easy shade reproduction ensure precision and user friendliness due to a consistent shape and shade

> a coordinated user-orientated range and short time required for training mean flexibility and cost-effectiveness for every laboratory

BeCe PRESS Z Test-Kit for the staining technique

The test kit contains all the components required for fabrication of shade A3 restorations

Availability:	REF
BeCe PRESS Z Test-Kit 1 set, contains:	70033
1 x BeCe PRESS Zirconia Pressable Ceramic System instructions for use	
Press ingot CPZ 3, 5 x 2 g	
Liner N, 4 g	
Liquid liner Z, 20 ml	
Stain fluor. Powder Z shade A, 4 g	
Stain fluor. Powder Z white, blue, 4 g each	
Glaze powder Z, 3 g	
Liquid stain/glaze Z, 20 ml	
Try-in sculpting wax FC grey, 7 g	
Bellavest SH 100 g portion bag, 10 bags	
BegoSol HE, 250 ml	
Single-use press plunger for 2 g, 5 plungers	

BeCe PRESS Z Start-Kit for the staining technique

The start kit provides you with the complete materials for reproduction of the most important Vita shades: A2, A3, A3.5, B2, B3 und D3

Availability:	REF
BeCe PRESS Z Start Kit 1 set, contains:	70032
1 x BeCe PRESS Zirconia Pressable Ceramic System instructions for use	
Press ingot CPZ 2, CPZ 3, CPZ 4, CPZ 6, 5 x 2 g	
Correction material CPZ 2, CPZ 3, CPZ 4, CPZ 6, 4 g each	
Liquid stain/glaze Z, 25 ml	
Modelling liquid Z, 25 ml	
Liquid Liner Z, 25 ml	
Liner 1, 2, 5, N, 4 g	
Stain fluor. powder Z violet, orange, full-orange,	
pretty-brown, black, white, sand, yellow, blue, 4 g each	
Stain fluor. Powder Z Shade A, Shade B, Shade D, 4 g each	
Glaze powder Z, 3 g	
Shade guide stain/press ingot CPZ, 1 shade g	

BeCe PRESS Z Start-Kit Individual for the press build-up technique

The Individual start kit contains all components for the fabrication of restorations in the popular shades: A2, A3, A3.5, B2, B3 und D3

Availability:	REF
BeCe PRESS Z Start Kit Individual 1 set, contains:	70046
1 x BeCe PRESS Zirconia Pressable Ceramic System instructions for use	
Press ingot CPOZ 2, CPOZ 3, CPOZ 4 , CPOZ 6, 5 x 2 g each	
Correction material CPOZ 2, CPOZ 3, CPOZ 4, CPOZ 6, 4 g each	
Correction material Z LF Clear, LF Enamel, 4 g each	
Modelling liquid Z 25 ml	
Z enamel 2, enamel 3, enamel 4, 20 g each	
Z transparent orange, amber, blue, grey, pink, clear, 20 g each	
Z opal incisal 1, opal incisal 2, 20 g each	
Z modifier orange, brown, white, 4 g each	
Z gingiva 1, gingiva 2, 20 g each	
Shade guide Z 1, shade guide Z 2, 1 x each shade guide	

Liner

The liner enhances the bond between the zirconia framework and pressable ceramic. The liner is fluorescent and translucent, which enables the transport of light. In combination with the BeCe PRESS Z ingots this results in an increased light scatter and gives the finished restoration a natural light dynamic.

Availability:		REF
Liner 1	4 g	70160
Liner 2	4 g	70161
Liner 3	4 g	70162
Liner 4	4 g	70163
Liner 5	4 g	70164
Liner N	4 g	70165

Press-Ingot CPZ

Translucent BeCe PRESS Z ingots recommended for staining technique. All 16 Vita shades can be reproduced using the BeCe PRESS Z with only 6 different coloured ingots. Two ingot sizes (2 and 5 g) ensure maximum flexibility.

Availability:		REF
Press-Ingot CPZ 1	5 x 2 g	70820
Press-Ingot CPZ 2	5 x 2 g	70821
Press-Ingot CPZ 3	5 x 2 g	70822
Press-Ingot CPZ 4	5 x 2 g	70823
Press-Ingot CPZ 5	5 x 2 g	70824
Press-Ingot CPZ 6	5 x 2 g	70825
Press-Ingot CPZ 1	5 x 5 g	70830
Press-Ingot CPZ 2	5 x 5 g	70831
Press-Ingot CPZ 3	5 x 5 g	70832
Press-Ingot CPZ 4	5 x 5 g	70833
Press-Ingot CPZ 5	5 x 5 g	70834
Press-Ingot CPZ 6	5 x 5 g	70835

Press-Ingot CPZ Bleach

Four bleach shades complet the system. The press ingots can be used both in the staining technique and in the press build-up technique.

Availability:		REF
Press-Ingot Bleach CPZ A0	5 x 2 g	70840
Press-Ingot Bleach CPZ A00	5 x 2 g	70841
Press-Ingot Bleach CPZ B0	5 x 2 g	70842
Press-Ingot Bleach CPZ B00	5 x 2 g	70843

Liquid Liner Z

Liner liquid for mixing the BeCe PRESS Z liner powder.

Availability:		REF
Liquid Liner Z	25 ml	70170
Liquid Liner Z	100 ml	70171

Correction Material CPZ

Matching Z correction porcelains are available for each ingot shade for adjustments to the press restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:		REF
Correction Material CPZ 1	4 g	70470
Correction Material CPZ 2	4 g	70471
Correction Material CPZ 3	4 g	70472
Correction Material CPZ 4	4 g	70473
Correction Material CPZ 5	4 g	70474
Correction Material CPZ 6	4 g	70475

Correction Material CPZ Bleach

Matching Z correction porcelains are available for each ingot shade for adjustments to the press restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:		REF
Correction Material Bleach CPZ A0	4 g	70490
Correction Material Bleach CPZ A00	4 g	70491
Correction Material Bleach CPZ B0	4 g	70492
Correction Material Bleach CPZ B00	4 g	70493

Press-Ingot CPOZ

Opaque press ingots Z are available in the 6 basic shades. The ingots are recommended for pressing the dentine core in the cut-back technique or with limited space availability.

Availability:		REF
Press-Ingot CPOZ 1	5 x 2 g	70800
Press-Ingot CPOZ 2	5 x 2 g	70801
Press-Ingot CPOZ 3	5 x 2 g	70802
Press-Ingot CPOZ 4	5 x 2 g	70803
Press-Ingot CPOZ 5	5 x 2 g	70804
Press-Ingot CPOZ 6	5 x 2 g	70805
Press-Ingot CPOZ 1	5 x 5 g	70810
Press-Ingot CPOZ 2	5 x 5 g	70811
Press-Ingot CPOZ 3	5 x 5 g	70812
Press-Ingot CPOZ 4	5 x 5 g	70813
Press-Ingot CPOZ 5	5 x 5 g	70814
Press-Ingot CPOZ 6	5 x 5 g	70815

Correction Material CPOZ

Matching Z correction porcelains are available for each ingot shade for adjustments to the pressed restoration. The correction porcelains are suitable for additions to contact points or the occlusion as well as extensive build-up of voids on the pressed restoration.

Availability:		REF
Correction Material CPOZ 1	4 g	70460
Correction Material CPOZ 2	4 g	70461
Correction Material CPOZ 3	4 g	70462
Correction Material CPOZ 4	4 g	70463
Correction Material CPOZ 5	4 g	70464
Correction Material CPOZ 6	4 g	70465

Correction Material Z LF

Low-fusing correction porcelains Z LF for any additions required after the glaze firing.

Availability:		REF
Correction Material Z LF Clear	4 g	70468
Correction Material Z LF Enamel	4 g	70469

Liquid Modelling Z

Universal modelling liquid with high positional stability and excellent modelling properties for use with BeCe PRESS Z correction, build-up and individual porcelains.

Availability:		REF
Liquid Modelling Z	25 ml	70174
Liquid Modelling Z	100 ml	70175

Z Enamel

For enhancing the natural incisal section in the press build-up technique using Z enamel porcelains.

Availability:		REF
Z Enamel 1	20 g	70590
Z Enamel 2	20 g	70591
Z Enamel 3	20 g	70592
Z Enamel 4	20 g	70593

Z Opal Incisal

Z Opal Incisal is available in two grades and creates a naturally vital opalescent effect.

Availability:		REF
Z Opal Incisal 1	20 g	70575
Z Opal Incisal 2	20 g	70576

Z Gingiva

Two Z gingiva porcelains with a natural opacity are available for additions to the gingiva, particularly suitable in implant prosthetics or in the pontic region.

Availability:		REF
Z Gingiva 1	20 g	70577
Z Gingiva 2	20 g	70578

Z Transpa

Further special effects can be added to custom incisal build-ups by inlaying transparent zones. For example, Z Transpa blue can be used for creating optically pronounced marginal ridges on anterior teeth.

Availability:		REF
Z Transpa orange	20 g	70580
Z Transpa amber	20 g	70581
Z Transpa blue	20 g	70582
Z Transpa grey	20 g	70583
Z Transpa pink	20 g	70584
Z Transpa clear	20 g	70585

Z Modifier

These intensely shaded Z modifiers can be applied where only limited space is available or where special effects are required in the incisal region. The Z enamels and Z transparent materials can be mixed to provide for unlimited creativity.

Availability:		REF
Z Modifier orange	4 g	70595
Z Modifier brown	4 g	70596
Z Modifier white	4 g	70597

Stain Fluor. Powder Z Shade A - D

The fluorescent stains shades A-D in combination with the selected Z press ingot facilitates staining of the pressed restoration to the required Vita shade group.

Availability:		REF
Stain Flour. Powder Z Shade A	4 g	70555
Stain Flour. Powder Z Shade B	4 g	70556
Stain Flour. Powder Z Shade C	4 g	70557
Stain Flour. Powder Z Shade D	4 g	70558

Glaze Powder Z

The user-friendly glaze porcelain produces a natural glaze on the BeCe PRESS Z restoration.

Availability:		REF
Glaze Powder Z	3 g	70542

Shadeguide Stain/ Press-Ingot CPZ

Shade guide for classification of the CPZ press ingots and stains.

Availability:		REF
Shadeguide Stain/ Press-Ingot CPZ	1 Stück	70357

Stain Fluor. Powder Z

BeCe PRESS Z includes a comprehensive range of stains for creating special shade effects easily.

Availability:		REF
Stain Fluor. Powder Z violet	4 g	70510
Stain Fluor. Powder Z orange	4 g	70511
Stain Fluor. Powder Z full-orange	4 g	70512
Stain Fluor. Powder Z pretty-brown	4 g	70513
Stain Fluor. Powder Z black	4 g	70514
Stain Fluor. Powder Z white	4 g	70515
Stain Fluor. Powder Z sand	4 g	70516
Stain Fluor. Powder Z yellow	4 g	70517
Stain Fluor. Powder Z blue	4 g	70518

Liquid Stain/Glaze Z

Liquid for use with BeCe PRESS Z Stain and Glaze materials.

Availability:		REF
Liquid Stain/Glaze Z	25 ml	70172
Liquid Stain/Glaze Z	100 ml	70173

Shadeguide Z

Shade guide for classification of CPOZ press ingots, correction, incisal and Individual porcelains.

Availability:		REF
Shadeguide Z 1	1 piece	70355
Shadeguide Z 2	1 piece	70356

SecuPress Ring system

Three sizes of reusable ring are available for investing BeCe PRESS restorations using Bellavest SH.
The system markings facilitate optimal positioning and devesting of the restoration.

Availability:	REF
SecuPress Ring System for 100 g investment / 2 g ingots 100 g/12 mm	70050
SecuPress Ring System for 200 g investment / 2 g ingots 200 g/12 mm	70051
SecuPress Ring System for 300 g investment / 2 g ingots 300 g/12 mm	70053

Corresponding product

Bellavest® SH precision investment · REF: 54252 (Page 34)

Bellavest® SH produces optimal press results. A phosphate-bonded precision investment for conventional and speed heating guarantees accurately fitting and reproducible press results. The 100 g portion bags in particular ensure compatibility with the SecuPress ring system.

SecuPress Ring Base

Ring Base for use with 5 g BeCe PRESS Ingots together with 16 mm plungers.
The base enables problem-free fabrication of long-span bridges that require a large quantity of ceramic.

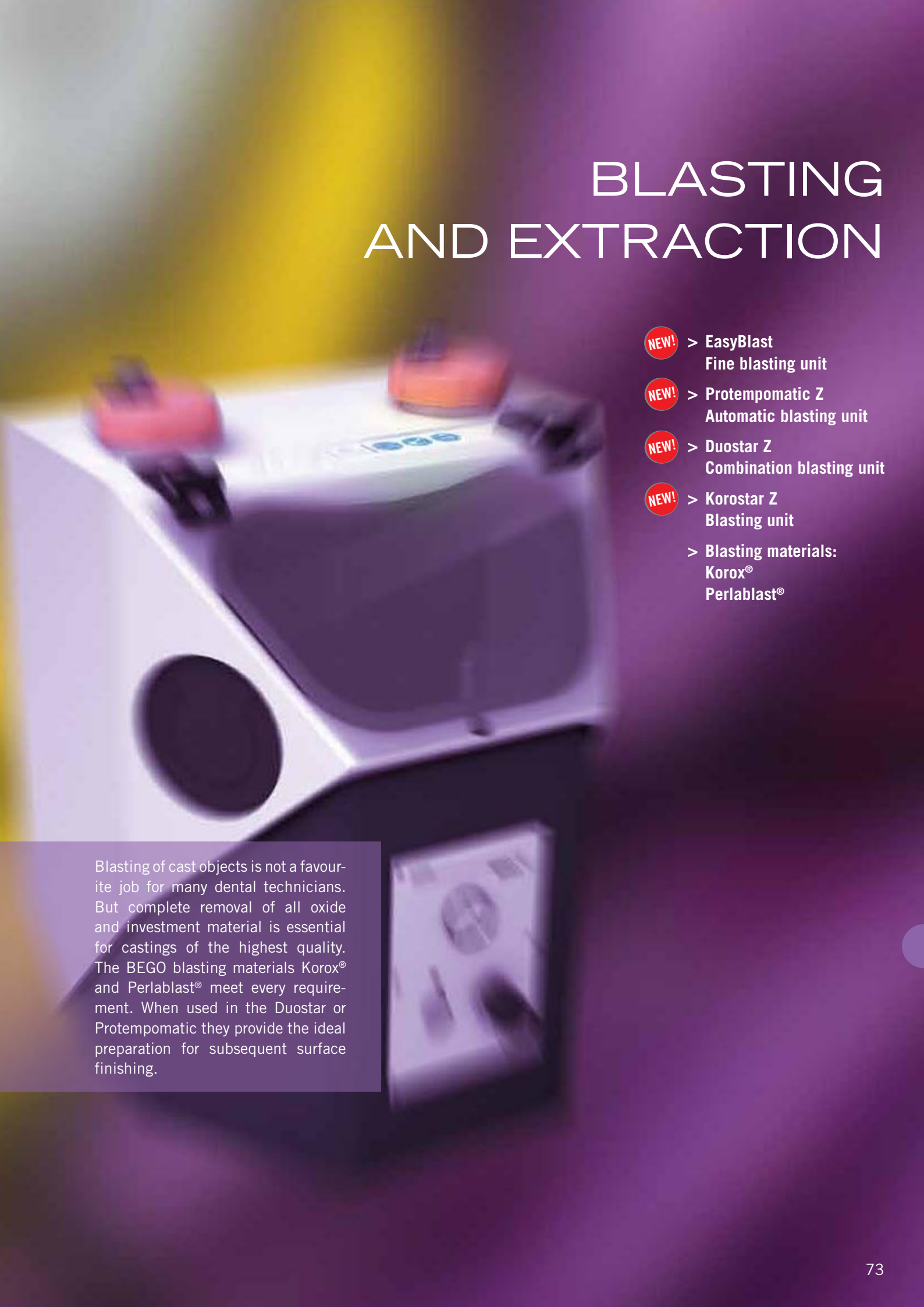
Availability:	REF
SecuPress Ring Base 200 g/16 mm	70052
SecuPress Ring Base 300 g/16 mm	70054

Single-use Plunger

Single-use Plunger which does not require time-consuming cleaning after pressing, such as with AlO2 plungers.

Availability:	REF
Single-use Plunger 2 g/ 20 pieces	70700
Single-use Plunger 5 g/ 20 pieces	70701

BLASTING AND EXTRACTION



NEW! > **EasyBlast**
Fine blasting unit

NEW! > **Protempomatic Z**
Automatic blasting unit

NEW! > **Duostar Z**
Combination blasting unit

NEW! > **Korostar Z**
Blasting unit

> **Blasting materials:**
Korox®
Perlablast®

Blasting of cast objects is not a favourite job for many dental technicians. But complete removal of all oxide and investment material is essential for castings of the highest quality. The BEGO blasting materials Korox® and Perlablast® meet every requirement. When used in the Duostar or Protempomatic they provide the ideal preparation for subsequent surface finishing.

NEW! Upgradable: up to 4 sandblasting modules

EasyBlast

For a perfect view during preparation

Easy to operate, versatile and ergonomic

> Highly integrated LED lighting in the handpiece for an optimal shadow-free view during preparation, even intracoronally

> For thorough removal of investment and oxides to prevent undesired biological reactions with the patient

> LED technology allows for detecting cracks in the ceramic during sandblasting with the aid of the LED technology – improves quality management and avoidance of complaints at a later stage

> LED lighting in the sandblasting chamber has a service life ten times higher than that of conventional lamps for cost-effective sandblasting

> The new EasyBlast can be upgraded to a 4-chamber sandblaster by adding 2 other sandblasting modules

> Intelligent colour coding system on the tanks and in the sandblasting chamber make it impossible to mix up the blasting media

> EasyBlast basic is a version of EasyBlast, but without the LED technology in the handpiece

Technical data:	
Height	14“ / 340 mm
Width	17“ / 410 mm
Depth/depth with additional tank	17“/20“ / 425/505 mm
Rated voltage	100 - 240 V, 50/60 Hz
Power	25 W max.
Compressed air connection 45 – 90 psi/3 – 6 bar (0.3-0.6 [MPa]), 1/4“	
Air consumption	approx. 60 l/min
Nominal internal diameter for connecting extraction system	1¼“ / 32 mm
Weight excluding blasting material	27 lbs / 12.3 kg

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Scope of delivery:	Unit	Pieces	**REF**
EasyBlast (with lighting in handpiece) **For connection to the central extraction** with 2 abrasive media containers, 2 illuminated handpieces and exchangeable nozzles for different grit sizes, initial filling blasting media	piece	1	26385
EasyBlast basic (handpiece without LED technology)	piece	1	26375
Accessories:			
Mesh panel guard	piece	1	18350
Sandblasting module basic (without light)	piece	1	18130
Sandblasting module (with light)	piece	1	18390
Replacement panel		1	17787
Fine blasting jet ∅ 1.2 mm for Korox® 250, Korox® 110 and Perlablast® (125 µm)	1 pack	2	14550
Fine blasting jet ∅ 0.8 mm for Korox® 50 and Perlablast® micro (50 µm)	1 pack	2	14549
Fine blasting jet ∅ 0.6 mm for Korox® 50 and Perlablast® micro (50 µm)	1 pack	2	14548
Fine blasting jet ∅ 0.4 mm for Korox® 25	1 pack	2	14547
Korox® 250 special corundum blasting material	8 kg/20 kg		46014 / 54300
Korox® 110 special corundum blasting material	8 kg/20 kg		46044 / 54299
Korox® 50 special corundum blasting material	8 kg/20 kg		46062 / 54298
Korox® 25 special corundum blasting material	8 kg		46036
Perlablast® 125 µm – blast-polishing material	8 kg/20 kg		46043 / 54301
Perlablast® micro – 50 µm – blast-polishing material	8 kg/20 kg		46092 / 54302
Spare collars	1 pack	2	13376
Brochure			83541

Protempomatic Z

Fully automatic sandblaster for up to 6 cast partial denture frameworks simultaneously

Efficient, quick, cost-effective

> The integrated aim point in the nozzle enables exact positioning of the workpiece in the abrasive flow for quick, effective sandblasting

> Efficient use of blasting material emphasises the cost-effective sandblasting

> LED lighting in the sandblasting chamber provides a service life ten times higher than that of conventional lamps for cost-effective sandblasting and reduces maintenance costs

> The swivel nozzle enables the unit to be used as an automatic or manual sandblaster for maximum application options in the laboratory

> The initial position of the nozzle can be magnetically locked for accurately setting the optimal nozzle angle during automatic and manual sandblasting to ensure the best possible sandblasting performance

> The viewing glass is locked in position by a magnetic switch: When it is opened, sandblasting is discontinued: for maximum operational safety

> The basket is easily removed - for increased comfort during manual sandblasting

Technical data:	
Height	22“ / 540 mm
Width	16“ / 400 mm
Depth	17“ / 410 mm
Rated voltage	100 - 240V, 50/60 Hz, plus only 230V
Power at rated voltage of 230 V	1.225 W (plus), 25 W (Z)
Compressed air connection	60 – 90 psi/4-6 bar (0.4-0.6 [MPa]), 1/4“
Air consumption	approx. 120 l/min
Capacity	18 lbs / 8 kg
Weight (excl. blasting material)	44 lbs / 20 kg

CE

Availability:	Unit	Pieces	**REF**
Protempomatic Z **For connection to the central extraction**			26360
Accessories:			
Hansa nozzle		1	12136
Turntable, compl.		1	12276
Replacement panel	piece	1	18354
Korox® 250 special corundum blasting material	8 kg/20 kg		46014 / 54300
Korox® 110 special corundum blasting material	8 kg/20 kg		46044 / 54299
Protective curtain	piece	1	18284
Rubber sleeves	piece	4	18358
Brochure			83541

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Duostar Z

Multifunctional due to the combination of a micro-blaster and recirculation sandblaster

The multi-purpose blaster in your laboratory

> Integrated LED lighting in the handpiece for an optimal shadow-free view during preparation, even intracoronally

> For thorough removal of investment and oxides to prevent undesired biological reactions with the patient

> LED lighting in the sandblasting chamber provides a service life ten times higher than that of conventional lamps for cost-effective sandblasting and reduces maintenance costs

> Combines the features of 2 units in one and provides the advantages of a microblaster and recirculation sandblaster. Duostar is therefore the ideal, cost-effective investment for small and medium laboratories

Technical data:		
Height		24“ / 590 mm
Width		16“ / 400 mm
Depth		17“ / 420 mm
Rated voltage		100 - 240V, 50/60 Hz, plus only 230V
Power at rated voltage of 230 V		1.225 W (plus), 25 W (Z)
Compressed air connection		60 – 90 psi / 4 – 6 bar (0.4-0.6 [MPa]), 1/4“
Air consumption		approx. 120 l/min
Capacity	recirculation system	18 lbs / 8 kg
	pencil blaster	22 oz / 700 g per container
Weight (excl. blasting material)		51 lbs / 23 kg

CE

Availability:	**REF**
Duostar Z **For connection to the central extraction**	26365

Accessories:	Unit	Pieces	**REF**
Spare nozzle for recirculation		1	12136
Replacement panel	piece	1	17787
Pencil jet ∅ 1.2 mm for Korox® 250, Korox® 110 and Perlablast® (125 µm)	1 pack	2	14550
Pencil jet ∅ 0.8 mm for Korox® 50 and Perlablast® micro (50 µm)	1 pack	2	14549
Pencil jet ∅ 0.6 mm for Korox® 50 and Perlablast® micro (50 µm)	1 pack	2	14548
Pencil jet ∅ 0.4 mm for Korox® 25	1 pack	2	14547
Korox® 250 special corundum blasting material	8 kg/20 kg		46014 / 54300
Korox® 110 special corundum blasting material	8 kg/20 kg		46044 / 54299
Korox® 50 special corundum blasting material	8 kg/20 kg		46062 / 54298
Korox® 25 special corundum blasting material	8 kg		46036
Perlablast® – 125 µm – blast-polishing material	8 kg/20 kg		46043 / 54301
Perlablast® micro – 50 µm – micro blast-polishing material	8 kg/20 kg		46092 / 54302
Mesh panel guard	piece	1	18350
Rubber sleeves	piece	4	18358
Brochure			83541

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Korostar Z

Ideal sandblaster for manual, cost-effective sandblasting

Robust and strong!

> The ergonomic design provides a relaxed working posture and plenty of free space for the hands ensuring comfortable sandblasting

> Low maintenance and cost-effective due to the use of many wear-resistant components

> Reliable even with maximum loading

> The injector nozzles ensure an optimal proportion of blasting media in the compressed air flow of the abrasive recycling system

> Large refilling flap and good illumination of the blasting chamber

> LED lighting in the sandblasting chamber provides a service life ten times higher than that of conventional lamps and reduces the maintenance costs

Technical data:	
Height	22“ / 540 mm
Width	15“ / 400 mm
Depth	17“ / 410 mm
Rated voltage	100 - 240V, 50/60 Hz, plus only 230V
Power at rated voltage of 230 V	1.225 W (plus), 25 W (Z)
Compressed air connection	60 – 90 psi/4 – 6 bar (0.4 – 0.6 [MPa]), 1/4“
Air consumption	approx. 120 l/min
Capacity	8 kg
Weight (excl. blasting material)	40 lbs / 18 kg

CE

Availability:	Unit	Pieces	**REF**
Korostar Z **For connection to the central extraction**			26370
Accessories:			
Spare nozzle		1	12136
Replacement panel	piece	1	17787
Rubber collars	4 pieces		18358
Korox® 250 special corundum blasting material	8 kg/20 kg		46014 / 54300
Korox® 110 special corundum blasting material	8 kg/20 kg		46044 / 54299
Brochure			83541

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Korox®

Special corundum blasting material of 99.6 % aluminium oxide

Alpha-corundum with great hardness. The particles retain their angular shape until spent. Efficiency and user friendliness are reflected in the impressive compatibility with the new Bego recycling sandblasters such as Duostar or Protempomatic. In addition to efficient removal of investment residue and oxides, Korox® 250 is particularly recommended for use in microblasters for optimal surface conditioning of non-precious alloys before porcelain firing. Korox® meets the provisions of the German employers' liability associations.

Availability:	REF
Korox® 250 (250 µm), 1 container = 8 kg	46014
Korox® 110 (110 µm), 1 container = 8 kg	46044
Korox® 50 (50 µm), 1 container = 8 kg	46062
Korox® 25 (25 µm), 1 container = 8 kg	46036

Perlablast®

Blasting material for blast-polishing

Perlablast® consists of tiny lead-free soda glass beads that produce an even silky finish. The controlled bead size and shape of spheres provide efficient, cost-effective operation with very easy use. There is no metal loss because the surface is compacted rather than abraded. No further finishing is required for surfaces that need not be polished. Perlablast® is used for all crown and bridge alloys to give a mat finish to the chewing surfaces.

Availability:	REF
Perlablast® (125 µm), 1 container = 8 kg	46043
Perlablast® micro (50 µm), 1 container = 8 kg	46092

Corresponding product

Ideal for use in combination with the sandblaster generation

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Optimally matched system components mean clear handling, processing reliability with high-quality expert results

SURFACE TREATMENT

- > Paraskop® M Milling unit
- NEW! Turbine BeCe Air Zirkon
- > Triton SL Steam blaster
- > Separating discs
- > Terra Cutters
- > Fine-grain grinding stones
- > Perforated discs
- > WiroFlex Rubber polishing wheels
- > Rubber polishers
- > Diamond grinding stones
- > Carbide cutters
- > Implant-Milling Burs
- > Polishing compounds
- > Taz Burs
- > Eltropol Polishing units
- > Wirolyt Polishing liquid

Surface finishing is an important step in the fabrication of a prosthesis. The right fine-grain grinding stones, appropriate blasting material and devices such as Duostar, Korostar or the Triton steam blaster have been tried and tested in the dental laboratory for many years. For partial dentures, Eltropol and the polishing liquid Wirolyt are a guarantee of good results.

Paraskop® M
Multifunctional milling unit

Compact, precise and universal

> Milling and drilling of wax and metal, machining zirconium dioxide using the optional BEGO laboratory turbine

> Powerful, maintenance-free, brushless milling spindle for extra durability

> Vibration-free running of the spindle ensures optimum concentricity

> Precise variable speed control up to 50,000 rpm, anti-clockwise rotation up to 30,000 rpm for all applications in milling work

> Stable and quick positioning of the model table using electromagnetic fixation

> Low heat output LED provide maximum light output and approx. 10 x longer service life than conventional lamps


Collection tray


Splash chamber

Technical data:	
Height	approx. 19“ – 23“ / 480 – 570 mm
Width	12“ / 290 mm
Depth	13“ / 310 mm
Nominal voltage	200 – 240 V, 50/60 Hz
Special voltages	100 – 120 V, 50/60 Hz (on request)
Rated power of milling spindle	260 W
RPM approx.	1,000 – 50,000
Anti-clockwise	up to 30,000
Weight	20 lbs / 8.9 kg

Scope of delivery:	Unit	REF
Paraskop® M Basic unit with milling spindle, surveying head, model table and LED lamp, 2.35 mm chuck with depth stop, foot-switch, chuck key, cleaning brush and 2 spare fuses	1 piece	26340
Accessories:		
Milling set 2.35 mm	1 set	43666
NEW! Zirconium abrasives 2°	1 piece	43510
Collet chuck 2.35 mm with bit stop	1 piece	31722
Collet chuck 3 mm with bit stop	1 piece	31721
Dust protection cover	1 piece	32746
Refill holder	1 piece	22163
Graphite refills	1 pack	22150
Measurement set according to Ney	1 set	22160
Model table	1 piece	14418
Laboratory turbine	1 piece	26345
Water collection bowl for Paraskop® M	1 piece	18082
Splash cabin for trimming ceramics	1 piece	18083
Compressed air coupling set	1 piece	18115

Corresponding product

Laboratory turbine BeCe Air Zirkon with control unit (2 L water tank) and connection set	
Height	260 mm
Width	260 mm
Depth	240 mm
RPM	max. 320.000
Compressed air connection	min. 3 bar
REF	26345

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

BeCe Air Zirkon

> The large water tank (2 litres) is unique on the market and ensures efficient working over a long period without refilling

> Integrated ceramic water filter that helps eliminate dirt and dust particles from the water and prevents damage to the rotor

> Soundproofing reduces the noise level for increased comfort and convenient operation

> 24 LEDs provide maximum light output without heating the wax pattern and up to 10 x longer service life than conventional lamps

Triton SL

"Wet" and "dry steam" cleaner

Environmentally sound, intensive and versatile

> High-performance unit with "wet" and "dry steam" setting

> Fixed water connection with optional interconnected BEGO full demineralising cartridge effectively minimises calcification of the unit

> Steam pressure of approx. 45 psi / 3 bar for gentle but thorough cleaning

> High degree of safety through fixed connections consisting of copper tubing

> Corrosion-resistant housing made of special steel and plastic

> The insulation of the spray gun prevents the handpiece from heating up, thus ensuring maximum comfort even during longer periods of use

> Water leak detector cuts off the water supply immediately should leakages occur and prevents water damage in the laboratory

Technical data:	
Height	21" / 540 mm
Width	15" / 380 mm
Depth	11" / 280 mm
Rated voltage	200 – 240 V, 50/60 Hz
Special voltages	100 – 120 V, 50/60 Hz
Power at rated voltage of 230 V	1.5 kW
Boiler temperature at 3 bar	271 °F / 133 °C
Steam pressure	3±0.2 bar (approx. 0,3 [MPa])
Boiler capacity	2.9 l
Water conncetion	3/4", 60 – 90 psi / 4 – 6 bar
Weight	29 lbs / 13 kg

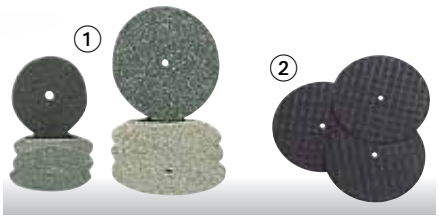
Availability:	Unit	**REF**
Triton SL	1 piece	26005
Accessories:		
Calex decalcifier	1 l/ bottle	52125
Full demineralisation cartridge with 2 inserts and ring spanner	1 piece	37600
Inserts for cartridge	2 pieces/1 set	37602
Durox replacement one-way resin	6 l/ tub	52121
Ring spanner	1 piece	11044
Brochure		81328

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Separating discs

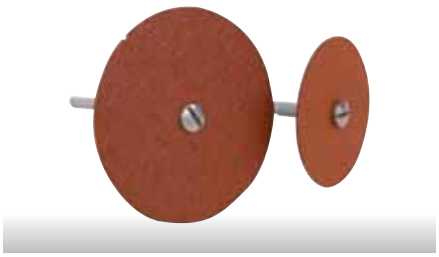
For separating sprues



① BEGO separating discs for cutting off sprues safely and slicing through ceramic and metal, leaving only a narrow gap.
② **SecuDisc separating discs** are very safe and long-lasting due to the glass fibre mesh laid-in on both sides. This also saves working time and material. The 22 x 0.2 mm SecuDisc cuts precious alloys very economically.

Availability:	REF
① **BEGO Separating discs,** 1 pack = 100 pcs.	
∅ 25 x 0.5 mm	43040
∅ 35 x 0.8 mm	43020
For ceramics:	
∅ 22 x 0.3 mm	43060
② **SecuDiscSeparating discs,** 1 pack = 20 pcs.	
∅ 38 x 0.5 mm	54808
∅ 25 x 0.3 mm	54809
∅ 22 x 0.2 mm	54810

Terra Cutters

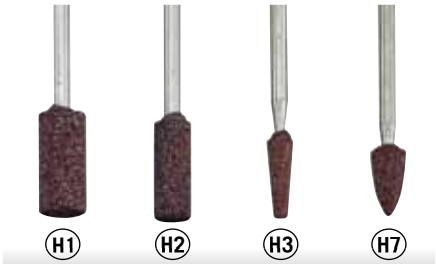


Unparalleled strength, durability, and cutting efficiency. BEGO's Terra Cutter is a non-contaminating, high-yield disc with the power for cut-off and finishing of partial frames, as well as C & B and non-precious alloys.

Availability:	REF
22 mm x .25 mm, pkg of 100	52463
29 mm x .5 mm, pkg of 100	52465
38 mm x .6 mm, pkg of 100	52464

Fine-grain grinding stones

with a high cutting capacity



Fine grit stones are used for efficient grinding of dental alloys. Shank size 2.35 mm – recommended rpm 30,000 to 50,000. The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm.

Availability:	REF
Shank size 2.35 mm	
H1 (ISO REF 066),	
1 pack = 12 pieces	43150
1 pack = 100 pieces	43160
H2 (ISO REF 051),	
1 pack = 12 pieces	43170
1 pack = 100 pieces	43180
H3 (ISO REF 035),	
1 pack = 12 pieces	43190
1 pack = 100 pieces	43200
H7 (ISO REF 050),	
1 pack = 12 pieces	43270
1 pack = 100 pieces	43280

Perforated discs

They are particularly resistant. Perforated discs are highly resistant and are used for effective removal of sprue ends on the castings after separation. The large circumference of the perforated discs optimize the cutting capacity.

Availability:	REF
∅ 34 x 3 mm, 1 pack = 100 pcs.	43080
∅ 22 x 3 mm, 1 pack = 100 pcs.	43100

WiroFlex

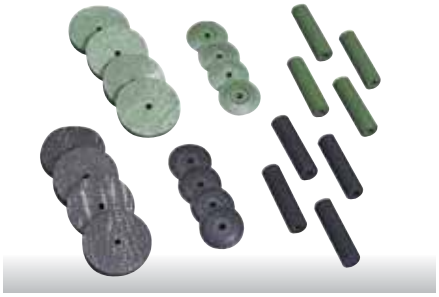
Rubber polishing wheels

Very thin and extremely flexible, they can be used for all dental alloys. Especially well-suited for the partial denture technique, for finishing areas that are difficult to access as well as for crown and bridge work – for example, for interdental work – because they conform very closely to the shape to be rubber-polished.

Availability:	REF
∅ 22 x 1.2 mm, 1 pack = 100 pieces	43311

Rubber polishers

For pre-polishing alloy surfaces

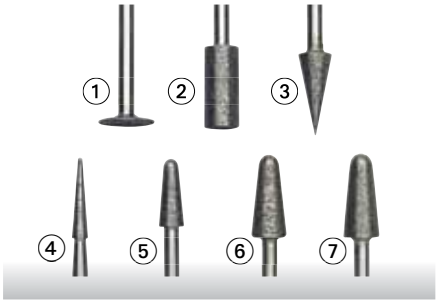


For pre-polishing the surfaces of precious and non-precious castings which can then be high-lustre polished to a deep, lasting lustre.

Availability:	REF
Rubber polishing wheels, ∅ 22 x 3.5 mm,	
green, 1 pack = 100 pieces	43310
black, 1 pack = 100 pieces	43330
Rubber polishing tips ∅ 6.5 x 24 mm,	
green, 1 pack = 100 pieces	43350
black, 1 pack = 100 pieces	43370
Knife-edge rubber polishing wheels, ∅ 15.5 mm,	
green, 1 pack = 100 pieces	43390
black, 1 pack = 100 pieces	43410

Diamond grinding stones

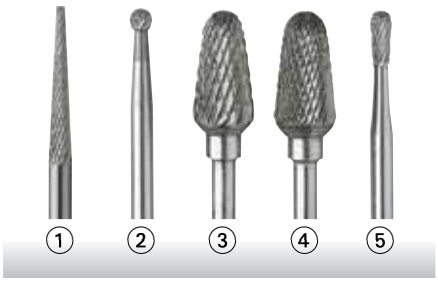
sintered



Diamond rotary instruments have a high cutting capacity and considerably longer service life compared with ceramic bonded fine grit stones. The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm.

Availability:	REF
Medium grain:	
① ISO Ref.-No. .080	43491
② ISO Ref.-No. .050	43492
③ ISO Ref.-No. .050	43494
④ ISO Ref.-No. .023	43495
⑤ ISO Ref.-No. .037	43496
⑥ ISO Ref.-No. .050	43497
Coarse grain:	
⑦ ISO Ref.-No. .050	43498

Carbide cutters



The quality of the material and the cutting geometry ensure high degree of removal and long service life. The cutters meet the ISO standard and are equally suitable for both plastic and metal.
Speed of rotation: max. 35.000 min^{-1}.

Availability:	REF
① ISO-No. .023 1 piece	43458
② ISO-No. .023 1 piece	43459
③ ISO-No. .060 1 piece	43460
④ ISO-No. .060 1 piece	43461
⑤ ISO-No. .023 1 piece	43462
The figure in the ISO no. indicates the largest diameter of the active part in 1/10 mm. Shank thickness 2.35 mm.	

Implant-Milling Burs

Quality burs for milling in wax shaping and metal finishing of frameworks. Available in single and double fluted as well as 0, 2, 4, and 6 degree tapers. Burs are ideal for combination cases or milled implant structures and fit most hand pieces or milling units.

Availability:	REF
Paraskop M Milling Unit	26340
Master Milling Bur Intro Kit	43666
Wax Cutters:	
0° wax cutter 1.2 mm	43610
0° wax cutter 2.3 mm	43620
2° wax cutter 2.3 mm	43630
4° wax cutter 3.1 mm	43640
6° wax cutter 4.0 mm	43650
Milling Cutters:	
0° cutter, single cut 1.5 mm	43612
0° cutter, single cut 2.3 mm	43622
2° cutter, single cut 2.3 mm	43632
4° cutter, single cut 2.8 mm	43642
6° cutter, single cut 3.6 mm	43652
0° cutter, with x-cut 1.5 mm	43611
0° cutter, with x-cut 2.3 mm	43621
2° cutter, with x-cut 2.3 mm	43631
4° cutter, with x-cut 2.8 mm	43641
6° cutter, with x-cut 3.6 mm	43651
Spiral Burs:	
0° twist drill 1.0 mm	43660
0° groove cutter 1.2 mm	43661
Diamond Burs:	
2° diamond polisher 2.3 mm	43633
4° diamond polisher 3.1 mm	43643
6° diamond polisher 3.6 mm	43653
Accessories	
Milling Oil	43680

Polishing compounds

for dry polishing

These compounds are wax-bonded and enable clean and practically dust-free work. They do not contain any harmful quartz.

Availability:	REF
1 pack = 6 pieces Rough and final polish, for cobalt-chrome, blue, approx. 1.33 kg	52310
Rough polish for precious metals, yellow, approx. 1.46 kg	52320
Final polish for precious metals, green, approx. 1.46 kg	52330
Rough polish for plastics, brown, approx. 1.34 kg	52340
Final polish for plastics, white, approx. 1.4 kg	52311

Taz Burs

Non clogging carbide chip coated burs have a unique design for removing soft reline material. Available in 3 different shapes and fits most hand pieces.

Availability:	REF
Small, 2.7 mm	43670
Medium, 4.0 mm	43671
Large, 6.0 mm	43672
Intro kit, set of 3	43662

Eltropol 300

Eltropol E is established member of the Eltropol family of polishing units

Automatic recommendation of polishing time for different sizes of framework prevents unnecessary reduction of material

- > Innovative new heating concept quickly brings the unit up to operating temperature
- > Major time saving by simultaneous polishing of two Co-Cr partial denture bases
- > User-friendly operating panel with display and soft keys
- > Indicator to show when the solution in the polishing bath is due to be changed ensures consistent polishing quality
- > Simplified emptying directly into the canister via the drainage device, without coming into contact with the acid
- > Excellent polishing results ensured by uniform movement of the polishing bath
- > Supplementary cathode for frameworks ensures uniform polishing, even in the case of frameworks with a deep palate
- > The automatic current stabilization also supports uniform polishing

Technical data:			
	Eltropol 300	**Eltropol E**	
	Control Unit	Polishing bath	
Height	18“ / 452 mm	9“ / 230 mm	7“ / 180 mm
Width	16“ / 400 mm	12“ / 300 mm	6“ / 140 mm
Depth	11“ / 275 mm	10“ / 250 mm	7“ / 160 mm
Rated voltage	110 – 240 V, 50/60 Hz	200 – 240 V, 50/60 Hz	
Special voltages	see rated voltage	100 – 120 V, 50/60 Hz	
Max. power consuption	200 W	170 W	–
Polishing current	max. 10 A	max. 10 A	–
Capacity of tub/bowl	2 liter	–	1 liter
Weight	22 lbs / 10 kg	14 lbs / 6.5 kg	2 lbs / 0.8 kg

CE

You will find the detailed brochure as a download file in the Service section at www.bego.com.

Accessories:	Unit	Pcs.	**REF**
Supplementary cathode	1 set		31175
Supplementary cathode Eltropol 300	1 set		17000
Spare clamps with holder	1 set	2	36445
Spare clamps	1 set	6	14651
Model hook	1 piece		17001
Wirolyt polishing liquid	1 canister/2.5 l		52462
Brochure			82950

Availability:	**REF**
Eltropol 300 110 – 240 V, with supplementary cathode, clamps with holder, model hook	26310
Eltropol E with bath holder and anode holder, 1 bowl with cathode	25895

Wirolyt

Polishing liquid

Liquid for electrolytic polishing of cobalt-chrome alloys. Wirolyt is equally suited for Eltropol and polishing units of other manufacturers and enhances their performance and efficiency.

Availability:	**REF**
1 canister = 2.5 l	52462

JOINTING TECHNOLOGY/ SOLDERING

- > Additional materials for laser welding
- > Fluxes: Fluxsol Minoxyd
- > Solder

When it come to jointing, laser welding is now virtually the standard technology, and one in which BEGO has continuously expanded its expertise. Yet soldering still has an important role to play. For this method of jointing, the product range includes essential accessories such as BEGO solders and fluxes.

Additional materials for laser welding

Availability:	**Composition** in % by mass	Thickness/mm	Quantity	**REF**
Wiroweld (CoCrMo, C-free)	Co 63.5 · Cr 29 · Mo 5.5 · Si 1 · Mn 1	0.35	2 m	50003
Wiroweld (CoCrMo, C-free)	Co 63.5 · Cr 29 · Mo 5.5 · Si 1 · Mn 1	0.5	1.5 m	50005
Wiroweld (CoCrMo, C-free)	Co 63.5 · Cr 29 · Mo 5.5 · Si 1 · Mn 1	0.5	2 m	50009
Wiroweld NC (NiCrMo, C-free)	Ni 63.8 · Cr 22.1 · Mo 9.1 · Nb 3 · Si 1 · Fe 1	0.35	approx. 5.5 m	50006
Titan wire. grade 2	Ti 100	0.35	approx. 5 m	50008
AuroLloyd® KF wire	Au 55 · Ag 29.2 · Pd 10 · In 3.5 · Zn 1.2 · Sn 1 · Ru	0.35	approx. 5 g	61153
BegoCer® G wire	Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	0.35	approx. 5 g	61164
BegoLloyd® LFC wire	Au 62.8 · Ag 25 · Pd 5.7 · Pt 3 · Zn 2.2 · In 1.2 · Ru	0.35	approx. 5 g	61168
BegoLloyd® PF wire	Au 62.5 · Ag 22 · Cu 9.1 · Pt 4.3 · Zn 1.9 · Ir	0.35	approx. 5 g	61156
BegoPal® 300 wire	Pd 75.4 · In 6.3 · Ag 6.2 · Au 6 · Ga 6 · Ru	0.35	approx. 5 g	61165
BegoStar® ECO wire	Pd 51.9 · Ag 23 · Au 15 · In 6 · Sn 4 · Ru	0.35	approx. 5 g	61171
Bio PlatinLloyd® wire	Au 75.1 · Ag 14.8 · Pt 7.8 · Zn 1.8 · Rh · Mn · Mg	0.35	approx. 5 g	61161
Bio PontoStar® wire	Au 87 · Pt 10.6 · Zn 1.5 · In · Rh · Mn · Ta	0.35	approx. 5 g	61157
Bio PontoStar® XL wire	Au 86 · Pt 11.5 · Zn 1.6 · Fe · Rh · In	0.35	approx. 5 g	61167
ECO d'OR wire	Ag 40.5 · Au 38.1 · Pd13.0 · In 8.0 · Mn · Ta	0.35	approx. 5 g	61170
InLloyd® 100 wire	Au 78.1 · Ag 15.5 · Pt 3.9 · Zn 2.4 · Ir	0.35	approx. 5 g	61163
PlatinLloyd® 100 wire	Au 72 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Zn · Ir	0.35	approx. 5 g	61152
PlatinLloyd® KF wire	Au 72.8 · Ag 16.1 · Pd 5.7 · Zn 3 · Pt 2 · Mn · Rh	0.35	approx. 5 g	61158
PlatinLloyd® M wire	Au 70 · Ag 11.7 · Cu 10 · Pt 5 · Zn 1.9 · Pd 1 · In · Re	0.35	approx. 5 g	61155
PontoLloyd® G wire	Au 84.1 · Pt 8.3 · Pd 4.8 · In 2.7 · Ta	0.35	approx. 5 g	61166
PontoLloyd® L wire	Au 75 · Pd 17.9 · Ag 3 · In 2.5 · Sn 1.5 · Re	0.35	approx. 5 g	61169
PontoLloyd® P wire	Au 77.5 · Pt 9.9 · Pd 8.9 · In 1.4 · Ag 1 · Sn · Fe · Cu · Ir	0.35	approx. 5 g	61154
Pontonorm wire	Au 73.8 · Ag 9.2 · Pt 9.0 · Cu 4.4 · Zn 2.0 · In 1.5 · Ir	0.35	approx. 5 g	61172
PontoRex® G wire	Au 70 · Ag 13.2 · Pt 9.4 · Cu 3 · Zn 2 · In 1.9 · Rh · Ir	0.35	approx. 5 g	61151
PontoStar® G wire	Au 85.6 · Pt 11.4 · In 2.3 · Fe · Rh	0.35	approx. 5 g	61150

Fluxsol

Flux

Ready for immediate use in soldering precious-metal and non-precious metal alloys.

Availability:	REF
1 bottle = 80 g	52531

Minoxyd

Flux

For soldering precious-metal alloys and precious to cobalt-chrome or nickel-chrome. It saves intermediate soldering and provides strong joints that hold up even under great stress and strain. Minoxyd is also used for soldering metal-to-ceramic alloys in the furnace after firing the ceramic.

Availability:	REF
1 bottle = 80 g	52530

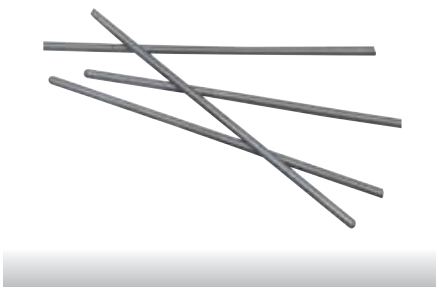
Instructions on use:

Thickened flux should be replaced. Adding water impairs the antioxidising effect.

Flux applied to the area of the joint must be dried slowly to avoid bubble formation and associated oxidation when the bubbles burst.

Cobalt-chrome solder

Soldering rods for all cobalt-chrome partial denture alloys



Characteristics:	
Melting interval	1100 – 1150 °C
Soldering temperature	1180 °C
Flux	Fluxsol
Composition in % by mass: Co 61 · Cr 28.5 · Mo 3.5 · Si 4 · Fe 1.5 · B · C	
Availability:	**REF**
1 pack = 5 pieces (half-round) ◗	52520

CE 0197

Wiron® solder

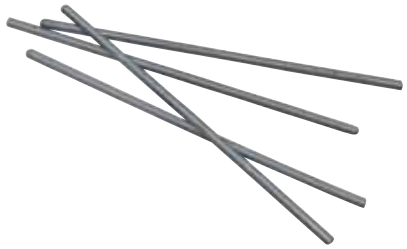
Soldering rods for all BEGO nickel-chrome alloys

Characteristics:	
Melting interval	1020 – 1150 °C
Soldering temperature	1165 °C
Flux	Fluxsol
Composition in % by mass: Ni 66 · Cr 19 · Mo 5.5 · Fe 5 · Si 3.5 · B	
Availability:	**REF**
1 pack = 6 pieces (round) ●	52625

CE 0197

Wirobond® solder

Soldering rods for Wirobond® alloys



Characteristics:	
Melting interval	1100 – 1150 °C
Soldering temperature	1180 °C
Flux	Fluxsol
Composition in % by mass: Co 60.5 · Cr 28.5 · Si 4.5 · Mo 3 · Fe 1.5 · B 1.5 · C	
Availability:	**REF**
1 pack = 8 pieces (triangular) ▲	52622

CE 0197

WG I

White gold solder for BEGO cobalt-chrome and BEGO nickel-chrome alloys, not suitable for metal-to-ceramic applications

Characteristics:	
Melting interval	985 – 1005 °C
Soldering temperature	1020 °C
Flux	Fluxsol/Minoxyd
Composition in % by mass: Au 65 · Pd 15 · Ag 8.5 · Cu 7 · Zn 1.7 · In 1.5 · Sn 1.3	
Availability:	**REF**
1 roll = 5 g	61075

CE 0197

WG II

White gold solder for BEGO cobalt-chrome partial denture alloys

Characteristics:	
Melting interval	890 – 920 °C
Soldering temperature	930 °C
Flux	Minoxyd
Composition in % by mass: Au 80 · Ni 15 · Zn 5	
Availability:	**REF**
1 roll = 4 g	61095

CE 0197

WGL

White gold solder for furnace soldering after firing BEGO cobalt-chrome and BEGO nickel-chrome metal-to-ceramic alloys

Characteristics:	
Melting interval	730 – 770 °C
Soldering temperature	860 °C
Flux	Minoxyd
Composition in % by mass: Au 65 · Zn 13.9 · Ag 13 · Ni 6 · Cu 2 · In	
Availability:	**REF**
1 pack = 5 g	61079

CE 0197

PRECISION ELEMENTS

> **Ancora**
> **Profile rod attachment**

> **BegoClip® P**
> **Extracoronal anchor**

The BEGO range of products also includes precision attachments. Many indications can only be treated with extra accessories. Your expectations will be fulfilled with this well-matched product system.

Ancora

Profile rod attachment

Applications: partial dentures, extracoronal, activating by changing the female part. Male mould also available in 45°.

Dimensions:	
bar length 6 mm, head diameter 1.75 mm	
Availability:	**REF**
Basic assortment, 1 set consisting of: 6 profile bars, acrylic, 6 universals, fixed, acrylic, 1 impression pin	52608
Accessories:	
Supplementary sets for Ancora: female parts, 1 pack = 6 pieces: ∅ 1.4 mm, white	52579
∅ 1.5 mm, red	52578
∅ 1.6 mm, black	52577
∅ 1.8 mm, yellow	52593
male parts 45°, 1 pack = 6 pieces	52725
parallel holder for male parts 45°	52726
metal outer tubes, 1 pack = 6 pieces	52587
impression pins, 1 pack = 6 pieces	52596
profile bars, 1 pack = 6 pieces	52597
Brochure	82426

CE 0197
(excl. 52596, 52597, 52725, 52726)

BegoClip® P

Extracoronal anchor

Applications: partial dentures, extracoronal.

Dimensions:	
height 4 mm, with female part 4.2 mm, head diameter 2 mm.	
Availability:	**REF**
Basic assortment for all crown and bridge alloys, 1 set consisting of: 2 male parts, white, acrylic 2 male part caps (palladium alloy), 2 female duplicating parts, brown, acrylic, 2 impression caps, dark blue, acrylic, 2 model pins, grey, acrylic, 2 female parts, yellow, low removal force, acrylic, 2 female parts, orange, medium removal force, acrylic, 2 female parts, blue, high removal force, acrylic, 1 insertion pin, blue, acrylic, 2 fixing instruments, black	52559
Accessories:	
Supplementary sets for BegoClip® P: male parts, 1 pack = 6 pieces	52558
female duplicating parts, 1 pack = 12 pieces	52565
acrylic female parts, 1 pack = 12 pieces low removal force	52566
medium removal force	52567
high removal force	52568
Repair set with 6 impression caps, 6 model pins, 1 pack	52569
insertion pins for female parts, 1 set = 2 pieces	52571
BegoClip®-carbide cutter, 1 piece	52572

CE 0197
(excl. 52571, 52572, 52569)

Courtesy of BEGO USA

Duplicating Under Pressure with Hydrocolloid is Better!

Curing your duplicate model in hydrocolloid under pressure can give you the following positive effects:

> Denser duplicate refractory or gypsum model
> Reproduce higher definition in your duplicate models for greater detail
> Smoother surfaces

Start processing the duplicating material as normal. Once the setting time of the duplicating material is reached, remove the master model from the hydrocolloid. Pour the refractory duplicate model and immediately place under pressure. A setting of up to 30 PSI in your pressure vessel will give you optimum results. Important — do not release the pressure before your material has hardened and do not exceed 30 PSI!

In the partial denture technique, it is also advisable to pressurize your second pour of refractory investment when making the mould. A pressure setting of 55 PSI is effective in getting smooth, bubble free metal frameworks that require less finishing time. Producing smoother frameworks with less finishing time is the aim of this tech tip.

Wirovest refractory material being poured into the hydrocolloid mould made with Wirogel M.

Place duplicated refractory model into the Wiropress SL pressure vessel, under 30psi of pressure.

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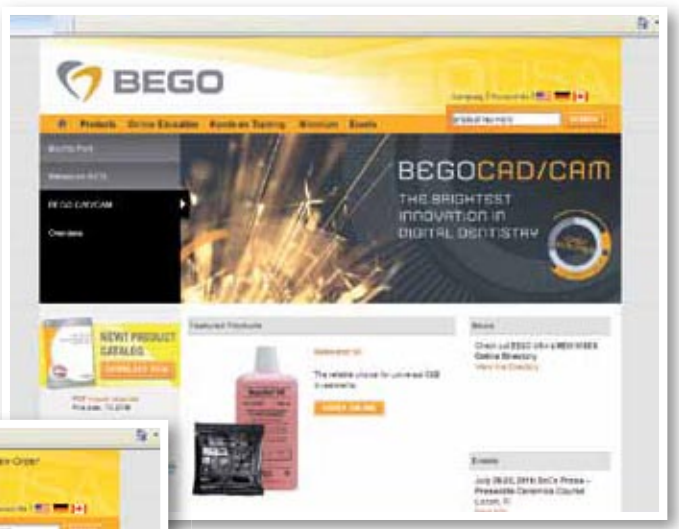

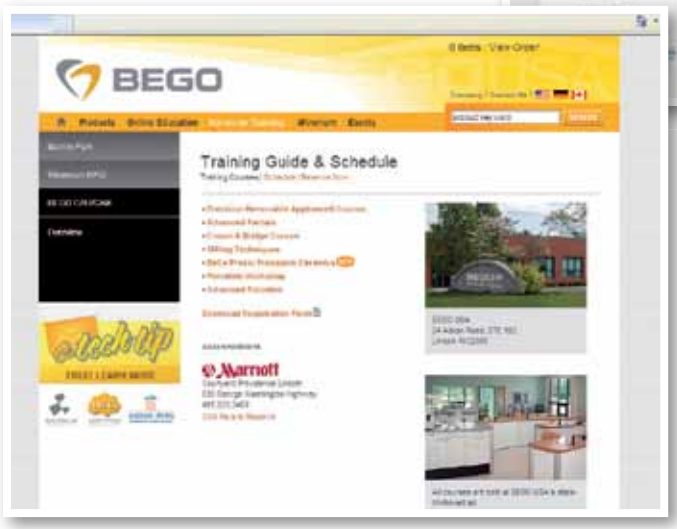

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