BEGO Catalogue
DENTAL TECHNOLOGY

Valid from
May 2019

Partners in Progress

BEGO

PARTNERS IN PROGRESS

HIGH-PERFORMING IN CONVENTIONAL DENTAL TECHNOLOGY

and guiding the future of digital dental technology

As an experienced and loyal partner, BEGO actively builds the future of dental health. What is important today – and what will be essential in the future? Dental laboratories worldwide trust our expertise to find the right solutions. We emphasize progress, efficiency and “made in Germany”. This is how we develop conventional state-of-the-art dental technology: precious and non-precious alloys as well as equipment, materials and services for the production of high-quality prosthesis.

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1

Precious-Metal Alloys

Bio PontoStar® XL

Bio PontoStar® XL

- High-gold alloy with a high gold and platinum content – for optimal processing
- Rich yellow color – for restorations which are at once aesthetic and high-quality
- Contains no copper or palladium – extremely corrosion-resistant
- Light-colored oxide – for greater reliability in aesthetic ceramic veneering
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Au 86.0 · Pt 11.5 · Zn 1.6 · Fe · In · Rh

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	18.8 g/cm³
Preheating temperature	850 °C
Solidus; liquidus temperature	1,045; 1,100 °C
Casting temperature	1,270 °C
Young's modulus	100 GPa
Proof strength ($R_{p0.2}$)	500 MPa
Elongation after fracture (A_5)	7 %
Vickers hardness	215 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.2

Availability	REF
Bio PontoStar® XL	61140

Accessories	
Laser welding wire Bio PontoStar®-XL wire, Ø 0.35 mm	61167
PontoStar® G solder before firing	61045
BEGO-GOLD solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

PontoLloyd® G

PontoLloyd® G

- Extra-hard, high-gold universal alloy – suitable for all indications!
- Yellow color – for aesthetic and high-quality restorations
- With indium – for reliable ceramic veneering
- Copper-free – also suitable for sensitive patients
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Au 84.4 · Pt 8.0 · Pd 5.0 · In 2.5 · Ta

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	18.1 g/cm³
Preheating temperature	850 °C
Solidus; liquidus temperature	1,100; 1,230 °C
Casting temperature	1,370 °C
Young's modulus	100 GPa
Proof strength ($R_{p0.2}$)	470 MPa
Elongation after fracture (A_5)	6%
Vickers hardness	200 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.1

Availability	REF
PontoLloyd® G	61106

Accessories	
Laser welding wire PontoStar G wire, Ø 0.35 mm	61150
PontoStar® G solder before firing	61045
BEGO-GOLD solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

Pontonorm

Pontonorm

- Noble extra-hard universal alloy for ceramic veneering
- Yellow color – for aesthetic and high-quality restorations
- Wide range of indications – to be used by all common low-melting and high-expendable ceramics or composites
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Au 73.8 · Ag 9.2 · Pt 9.0 · Cu 4.4 · Zn 2.0 · In 1.5 · Ir

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	16.7 g/cm³
Preheating temperature	700 °C
Solidus; liquidus temperature	900; 990 °C
Casting temperature	1,150 °C
Young's modulus	105 GPa
Proof strength ($R_{p0.2}$)	480 MPa
Elongation after fracture (A_5)	12 %
Vickers hardness	200 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	16.5

Availability	REF
Pontonorm	61126

Accessories	
Laser welding wire Pontonorm wire, Ø 0.35 mm	61172
PontoRex® solder before firing	61038
PontoRex® solder after firing	61039
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BegoPal® 300

BegoPal® 300

- Wide range of indications – from crowns to suprastructures
- Copper-free – ideal for sensitive patients
- Light-colored oxide – greater reliability in the coloring of the ceramic
- Alloyed with gold and silver – excellent melting, flow and soldering properties
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Pd 75.2 · In 6.3 · Ag 6.2 · Ga 6.0 · Au 6.0 · Re · Ru

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	11.0 g/cm³
Preheating temperature	850 °C
Solidus; liquidus temperature	1,175; 1,320 °C
Casting temperature	1,390 °C
Young's modulus	135 GPa
Proof strength ($R_{p0.2}$)	520 MPa
Elongation after fracture (A_5)	28 %
Vickers hardness	240 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.8

Availability	REF
BegoPal® 300	61105

Accessories	
Laser welding wire BegoPal®-300 wire, Ø 0.35 mm	61165
BegoStar® solder before firing	61081
BEGO-Gold solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

ECO d'OR

ECO d'OR

- Extra-hard universal alloy with reduced gold content – suitable for all indications
- Also suitable for veneering with LFC materials – strong bond even when subjected to multiple firing
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	12.0 g/cm³
Preheating temperature	700 °C
Solidus; liquidus temperature	975; 1,040 °C
Casting temperature	1,200 °C
Young's modulus	99 GPa
Proof strength ($R_{p0.2}$)	433 MPa
Elongation after fracture (A_5)	4.2 %
Vickers hardness	211 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	16.6

Availability	REF
ECO d'Or	61112

Accessories	
Laser welding wire ECO d'Or wire, Ø 0.35 mm	61170
Bio PlatinLloyd® solder before firing	61108
Bio PlatinLloyd® solder after firing	61109
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BegoPal® S

BegoPal® S

- Suitable for veneering with composites and conventional ceramics
- Copper-free – ideal for sensitive patients
- Light-colored oxide – greater reliability in the coloration of the ceramic
- Biocompatible and corrosion-resistant
- Also available as CAD/Cast Alloy

Product details

Composition in % by mass

Pd 57.5 · Ag 31.5 · Sn 9.0 · In 1.9 · Re · Ru

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	11.1 g/cm³
Preheating temperature	850 °C
Solidus; liquidus temperature	1,210; 1,290 °C
Casting temperature	1,450 °C
Young's modulus	118 GPa
Proof strength ($R_{p0.2}$)	480 MPa
Elongation after fracture (A_5)	7 %
Vickers hardness	220 HV5
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.4

Availability	REF
BegoPal® S	61086

Accessories	
Laser welding wire BegoPal® 300 wire, Ø 0.35 mm	61165
BegoStar® solder before firing	61081
BEGO-Gold solder after firing	61017
Minoxyd Flux	52530

Conforms with ISO 9693-1 for metal-ceramics
Conforms with ISO 22674 for use as crown and bridge alloy

BEGO Gold

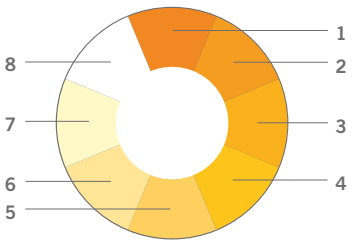
Alloy	Also as CAD/ Cast®	Bio-certi-ficate	Standards ISO	REF	Type according to ISO 22674	BEGO color code no.	Composition in % by mass (x = < 1%)								Other elements (< 1%)	Density g/cm³	Vickers hardness HV 5
							Au	Pt	Pd	Ag	Cu	Sn	Zn	In			
Alloys for conventional ceramics																	
Bio PontoStar® XL	✓	✓	9693-1 + 22674	61140	4	5	86.0	11.5	–	–	–	–	1.6	x	Fe · Rh	18.8	215
Bio PontoStar®	✓	✓	9693-1 + 22674	61104	4	5	86.7	10.7	–	–	–	–	1.5	x	Mn · Rh · Ta	18.8	225
PontoStar® G		✓	9693-1 + 22674	61046	4	4	85.5	11.4	–	–	–	–	–	2.3	Fe · Rh	18.0	175
PontoLloyd® G	✓	✓	9693-1 + 22674	61106	4	6	84.4	8.0	5.0	–	–	–	–	2.5	Ta	18.1	200
PontoLloyd® P	✓	✓	9693-1 + 22674	61087	4	8	77.5	9.9	8.9	1.0	x	x	–	1.4	Fe · Ir	17.9	205
BegoCer® G		✓	9693-1 + 22674	61097	4	8	51.5	–	38.4	–	–	–	–	8.7	Ga 1.3 · Ru	14.3	220
BegoStar®	✓	✓	9693-1 + 22674	61080	4	8	54.0	–	26.5	15.5	–	2.4	–	1.4	Re · Ru	13.8	225
BegoStar® ECO		✓	9693-1 + 22674	61121	4	8	15.0	–	51.9	23.0	–	4.0	–	6.0	Ru	11.2	215
BegoPal® 300	✓	✓	9693-1 + 22674	61105	4	8	6.0	–	75.2	6.2	–	–	–	6.3	Ga 6.0 · Re · Ru	11.0	240
BegoPal® S	✓	✓	9693-1 + 22674	61086	4	8	–	–	57.5	31.5	–	9.0	–	1.9	Re · Ru	11.1	220
Alloys for high-expanding ceramics (low-fusing dental ceramics)																	
Bio PlatinLloyd®	✓	✓	9693-1 + 22674	61125	4	4	74.9	7.8	–	14.9	–	–	2.2	–	Mg · Mn · Rh	16.3	205
Pontonorm	✓	✓	9693-1 + 22674	61126	4	3	73.8	9.0	–	9.2	4.4	–	2.0	1.5	Ir	16.7	200
PlatinLloyd® KF		✓	9693-1 + 22674	61025	4	4	72.8	2.0	5.7	16.1	–	–	3.0	–	Ir · Mn · Rh	15.6	250
AuroLloyd® KF	✓	✓	9693-1 + 22674	61052	4	6	55.0	–	10.0	29.3	–	1.0	1.2	3.5	Re · Ru	13.9	200
ECO d'OR	✓	✓	9693-1 + 22674	61112	4	6	38.1	–	13.0	40.5	–	–	–	8.0	Mn · Ta	12.0	211
BegoStar® LFC	✓	✓	9693-1 + 22674	61107	4	8	x	–	35.0	59.6	–	1.0	4.0	–	Ru · Zr	10.8	200
Alloys for crowns and bridges (only suitable for veneering with composite)																	
PlatinLloyd® 100	✓	✓	22674	61020	4	3	72.0	3.5	–	13.7	9.8	–	x	–	Ir	15.5	220
PlatinLloyd® M	✓		22674	61009	4	4	70.0	5.0	1.0	11.7	10.0	–	1.9	x	Re	15.7	270
AuroLloyd® M	✓		22674	61054	4	5	54.0	1.0	5.0	29.0	8.0	–	1.0	1.9	Ir	13.5	250

Types according to ISO 22674
Type 4: Intended for restorations with thin cross-sections which are exposed to very high loads, e.g. removable partial dentures, clasps, veneered crowns, bridges with long spans or small cross-sections, bars, fixtures, implant-supported superstructures.

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

	Proof strength ($R_{p0.2}$) MPa	Elongation after fracture (A_5) %	Young's modulus GPa	Solidus; liquidus temperature °C	Casting temperature approx. °C	Preheating temperature °C	CTE 25–500 °C 10^{-6} K^{-1}	Oxide firing °C	min.	with vakuum	Wire for laser welding	Solders (REF) ● Before firing ■ After firing
	500	7	100	1,045; 1,100	1,270	850	14.2	900	5	✓	Bio PontoStar® XL wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
	550	8	100	1,040; 1,150	1,270	850	14.2	950	10	–	Bio PontoStar® wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
	430	9	92	1,055; 1,140	1,320	850	14.4	950	1	–	PontoStar® G wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
	470	6	100	1,100; 1,230	1,370	850	14.1	960	10	–	PontoStar® G wire	● PontoStar® G solder (61045) ■ BEGO-Gold solder I (61017)
	490	5	110	1,145; 1,215	1,380	850	13.8	960	10	–	PontoLloyd® P wire	● PontoLloyd® solder (61074) ■ BEGO-Gold solder I (61017)
	520	16	125	1,155; 1,310	1,450	850	13.7	960	2–3	–	BegoCer G® wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
	510	15	113	1,230; 1,280	1,420	850	14.0	960	10	–	BegoCer G® wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
	440	22	135	1,250; 1,310	1,430	850	14.2	960	2–3	–	BegoStar® ECO wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
	520	28	135	1,175; 1,320	1,390	850	13.8	960	2–3	–	BegoPal® 300 wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
	480	7	118	1,210; 1,290	1,450	850	14.4	960	10	–	BegoPal® 300 wire	● BegoStar® solder (61081) ■ BEGO-Gold solder I (61017)
	490	6	120	990; 1,065	1,250	700	16.0	780	10	–	Bio PlatinLloyd® wire	● BioPlatinLloyd® solder (61108) ■ BioPlatinLloyd® solder (61109)
	480	12	105	900; 990	1,150	700	16.5	780	5	✓	Pontonorm wire	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
	580	6	120	980; 1,070	1,200	750	16.2	800	10	–	PlatinLloyd® KF wire	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
	480	7	106	950; 1,060	1,230	700	17.1	800	10	–	AuroLloyd® KF wire	● PontoRex® solder (61038) ■ PontoRex® solder (61039)
	433	4.2	99	975; 1,040	1,200	700	16.6	800	5	–	ECO d'OR wire	● BioPlatinLloyd® solder (61108) ■ BioPlatinLloyd® solder (61109)
	400	12	113	1,080; 1,150	1,300	700	16.6	780	10	–	ECO d'OR wire	● PontoRex® solder (61039) ■ PontoRex® solder (61039)
	500	15	95	900; 940	1,050	700	–	–	–	–	PlatinLloyd® 100 wire	BEGO-Gold solder I (61017) BEGO-Gold solder II (61043)
	650	11	98	880; 940	1,020	700	–	–	–	–	PlatinLloyd® M wire	BEGO-Gold solder I (61017) BEGO-Gold solder II (61043)
	455	6	107	860; 920	1,100	700	–	–	–	–	PlatinLloyd® M wire	BEGO-Gold solder I (61017) BEGO-Gold solder II (61043)

The specified data are standard. Subject to change.



The BEGO Color Code
The areas of colors within the characteristic fields approximately correspond to the intensity of the alloy colors.

2

Work Preparation

BegoStone plus

Super-hard plaster

- Type 4 high-quality, super-hard plaster which has been tried and tested over many years for building up models for the crown and bridge, inlay, partial denture and CAD/CAM techniques
- Optimal accuracy of detail with all standard impression materials demonstrates the extraordinary versatility of the product
- The thixotropic properties of BegoStone allow an immediate build-up
- BegoStone exhibits outstanding flow properties with only gentle vibration, making it easy to ensure that all parts of the impression are filled without any bubbles
- An ideal working time of approx. 5 minutes enables fatigue-free working
- The color, ivory 35, guarantees that all fine details and preparation margins can be clearly captured and recognised in a scan
- Very smooth model surfaces and high abrasion resistance combined with ideal expansion values (0.09%, linear) provide an optimal basis for extremely precise restorations
- Extremely high bending tensile strength ensures optimal resistance against teeth and stumps breaking off
- Controlled batch-to-batch consistency means that BegoStone plus facilitates precise results which can be reproduced at any time

Product details

Physical data	
Color	ivory 35
Soaking time	15 sec.
Processing time at 20 °C	approx. 5 min.
Setting time (Vicat test)	approx. 10 min.
Compressive strength after 1 hour [MPa]	60
Bending tensile strength (DIN) after 24 hours [MPa]	12
Setting expansion [%]	0.09
Hardening time	approx. 30 min.
Hardness after 1 hour [MPa]	approx. 220

Availability	Contents	REF
BegoStone plus	5 kg tub	54812
BegoStone plus	12 kg tub	54811

Ney measuring set

- The measuring instruments are used for model analysis, measuring undercuts and marking the equator in the partial denture technique

Product details

Scope of delivery	REF
Set of tools, shaft Ø 3 mm; 1 set consisting of undercut measuring instruments:	22160
1 0.25 mm	22145
2 0.50 mm	22146
3 0.75 mm	22147
4 Locating pin	22148
5 Wax scraper	22149
6 Refill holder	22163
Graphite refills (10 pieces)	22150

Model base former

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

Product details

Availability	Contents	Dimensions W × H × D (mm)	REF
U1, (Lower jaw small)	5 pieces	80 × 15 × 57	52641
U2, (Lower jaw large)	5 pieces	90 × 15 × 66	52642
O1, (Upper jaw small)	5 pieces	80 × 15 × 57	52661
O2, (Upper jaw large)	5 pieces	88 × 15 × 64	52671
sorted (U1, U2, O1, O2 for each piece)	4 pieces	see above	52630

3

Duplicating and Hardening

Overview BEGO Duplicating Materials

Duplicating Hydrocolloid & Duplicating Silicone

Overview BEGO Duplicating Materials

Indication	Wirosil®	Wirosil® plus
Investment material	✓✓✓	✓✓✓
Plaster	✓✓✓	✓✓✓
Acrylic casting technique	–	–
Physical data		
Melting temperature	–	–
Processing temperature	Room temperature	Room temperature
Reusability (minimum)	Single use	Single use
Accuracy of fit	✓✓✓	✓✓✓
Setting time (min.)	30–40 min.	10–12 min.
Suitable for microwave	–	–
Hardness / strength	17–20 (Shore-A)	20 (Shore-A)
Color	light blue	medium blue
Availability		
REF (Content)	REF 52001 (2 × 1 kg)	REF 54854 (2 × 1 kg)
	REF 51995 (2 × 5 kg[4])	REF 54904 (2 × 5 kg)
	REF 52000 (Basic set[5])	REF 54903 (Basic set[5])
Accessories		
Duplicating unit Gelovit 200 REF 26330	–	–
Combi duplicating flask REF 52090	–	–
Wirosil® Duplicating flask system small REF 52072	✓✓✓	✓✓✓
Wirosil® Duplicating flask system large REF 52083	✓✓✓	✓✓✓

✓✓✓ optimal · ✓✓ recommended · ✓ suitable

[1] When using plaster, use only plaster grade 4

[2] High processing temperature for best stability in the processing of self curing acrylic using for full dentures technique

[3] Shortened solidification times thanks to cooling in the fridge or cold water bath

[4] Adjusted weight

[5] 1 bottle each 1 kg, 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

Wirogel® M	Wirogel® C	Castogel®/Castogel® mint	Wirodouble®
✓✓✓	✓✓✓	✓✓✓	✓✓✓
✓✓[1]	✓✓[1]	–	–
✓✓	✓✓	✓	–
96 °C	96 °C	93 °C	93 °C
54 °C[2]	54 °C[2]	42 °C (short term 38 °C)	42 °C
15 melting cycles	12 melting cycles	10–12 melting cycles	10 melting cycles
✓✓✓	✓✓✓	✓✓	✓✓
60–90 min.	60–90 min. (approx. 45 min.[3])	60–90 min.	60–90 min.
✓✓✓	✓✓✓	✓✓✓	–
76 Duro 00	76 Duro 00	72 Duro 00	69 Duro 00
aquamarine	nature	green	nature
REF 54351 (6 kg)	REF 54870 (6 kg)	REF 52052 (6 kg)	REF 52050 (6 kg)
REF 54354 (10 kg)	REF 54871 (10 kg)	REF 52049 mint (10 kg)	
✓✓✓	✓✓✓	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓	✓✓✓
–	–	–	–
–	–	–	–

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Complementary product:
The appropriate gel is on the pages 19 to 22!

Gelovit 200

Robust duplicating unit, reliable, consistent results

- The programmable brushless motor offers greater reliability than conventional motors for a high dimension of durability
- Intelligent programming emphasises the unit's reliability and long service life
- Sophisticated preparation concept with intelligent temperature control effectively prevents lumps forming in the hydrocolloid and guarantees the fastest possible preparation without scorching
- The special heating strategy prevents residue deposits and nozzle blockages whilst maintaining homogeneity
- A third temperature level minimises the heat shrinkage of the hydrocolloid and ensures an optimal fit
- The time at which the hydrocolloid is required to be ready can be easily pre-programmed for optimum processing
- The number of required melting cycles can be entered individually. This ensures consistent quality of the duplicate models
- The clearly laid out display provides information on all parameters and gives quick and easy access to all important functions

Product details

Technical data	
Height	565 mm
Width	310 mm
Depth	355 mm
Rated voltage	230 VAC, 50/60 Hz
Special voltage	100–240 VAC, 50/60 Hz
Power at rated voltage 230 V	900 VA
Capacity	3–6 kg
Weight	21 kg

Availability	REF
Gelovit 200, 230 VAC, 50/60 Hz	26330

Accessories	Contents	REF
WiroGel® M duplicating gel for plaster, investment material and acrylic casting technique	6 kg tub	54351
Castogel® duplicating gel for investment material and acrylic casting technique	6 kg tub	52052
Wirodouble® duplicating gel for investment material	6 kg tub	52050
Combi duplicating flask, acrylic	1 set	52090

WiroGel® M

Environmentally friendly duplicating gel based on agar-agar hydrocolloid for producing models using investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters as well as the acrylic casting technique
- Highly accurate impression-taking; smooth model surfaces guarantee reliability in use and enable work results which meet the highest demands in terms of precision
- 15 melting cycles mean a very good cost-benefit ratio – suitable for melting in a microwave without compromising quality or precision
- Duplicating with WiroGel® M is more than five times less expensive than with silicone, taking into account the costs for the duplicating unit
- Color geared to contrast optimisation, thus ensuring optimal process reliability

Product details

Availability	Contents	REF
WiroGel® M	6 kg tub	54351
WiroGel® M	10 kg tub	54354
Accessories		
Combi duplicating flask	1 set	52090

WiroGel® C

Reversible natural duplicating gel based on agar-agar hydrocolloid for producing models using investment material, plaster and the acrylic casting technique

- For universal use: For all phosphate-bonded investment materials and type 4 plasters, as well as a wide range of applications in the acrylic casting technique
- Shortened solidification times thanks to cooling in the fridge or cold water bath
- Highly accurate impression-taking and smooth model surfaces guarantee reliability in use and enable work results which meet the highest demands in terms of precision
- Natural hydrocolloid for excellent process reliability, particularly with white and light plasters
- Up to 12 melting cycles ensure very good value for money without compromising quality and precision
- WiroGel® C is suitable for melting in the microwave
- Naturally biodegradable

Product details

Availability	Contents	REF
WiroGel® C	6 kg tub	54870
WiroGel® C	10 kg tub	54871

Accessories		
Combination duplicating flask	1 set	52090

Castogel® und Castogel® mint

Reversible special duplicating hydrocolloid based on agar-agar

- Special duplicating hydrocolloid for sophisticated partial dentures, combination work and the acrylic casting technique
- User-friendly thanks to its high level of impression-taking accuracy, even with the finest of details, and tear-resistant due to its outstanding elasticity. This offers you the necessary reliability and precision in use
- Castogel® mint with additional fresh mint fragrance
- Economical – can be reused up to 10–12 melting cycles
- Ecological – completely biodegradable

Product details

Availability	Contents	REF
Castogel®	6 kg tub	52052
Castogel® mint	10 kg tub	52049
Accessories		
Combination duplicating flask	1 set	52090

Wirodouble®

Reversible duplicating hydrocolloid based on agar-agar

- Proven duplicating hydrocolloid for phosphate- or silicate-bonded investment models
- Frequent reusability with up to 10 melting cycles are guaranteed by a high quality standard which makes it a user-friendly and economical product

Product details

Availability	Contents	REF
Wirodouble®	6 kg tub	52050

Accessories		
Combination duplicating flask	1 set	52090

Combi duplicating flask

for partial denture technique

- The low thermal conductivity of the plastic guarantees stressfree 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 Combi duplicating flasks are designed for use with our mould rings

Product details

Availability	Dimensions W × H × D (mm)	Contents	REF
1 Combi duplicating flask with wedge top, base and 2 base formers (2 sizes)	90 × 80 × 80 Fill level 55 mm	1 set	52090

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

Product details

Physical data	
Processing time	approx. 5:30 min.
Setting time (22 °C)	30–40 min.
Mixing time	30 sec.
Shore A hardness (1 hr.)	17 – 20
Recovery following deformation	99.8 %
Contraction (DIN 14356)	0.01 %

Availability	Contents	REF
Basic Wirosil® set: 1 bottle each = 1 kg Wirosil® 1+2, 1 measuring and mixing cup, 1 spatula, 1duplicating flask, small, 1 duplicating flask, large, 1 spray bottle Aurofilm wetting agent, 1 spray bottle Durofluid model spray, 1 instruction for use	1 set	52000
Single pack Wirosil® 1 + 2	2 × 1 kg bottle	52001
Large pack Wirosil® 1 + 2	2 × 5 kg bottle	51995

Wirosil® plus

Duplicating silicone

- Outstanding dimensional stability for extremely precise duplicate models
- 1:1 silicone for manual processing and use in the metering device
- Wirosil®plus has a setting time of just 10 minutes making it ideal for all dental technology work which demands speed as well as uncompromising precision
- Free-flowing consistency and optimal elastic recovery ensure perfect reproduction of combination work with milled surfaces

Product details

Physical data	
Processing time	3:30 min.
Setting time (22 °C)	10–12 min.
Mixing time	30 sec.
Shore A hardness (1 hr.)	20
Recovery following deformation	99.8 %
Contraction (DIN 14356)	0.01 %

Availability	Contents	REF
Single pack Wirosil®plus	2 × 1 kg bottle	54854
Large pack Wirosil®plus 1+2	2 × 5 kg canister	54904
Basic Wirosil® set: 1 bottle each = 1 kg Wirosil®plus 1+2, 1 measuring and mixing cup, 1 spatula, 1duplicating flask, small, 1 duplicating flask, large, 1 spray bottle Aurofilm wetting agent, 1 spray bottle Durofluid model spray, 1 instruction for use	1 set	54903

Accessories		
Aurofilm wetting agent (spray bottle)	100 ml bottle	52019
Wirosil® duplicating flask system	1 set	52083

Wirosil®

Duplicating flask system

- Precise reproduction, saving of material, dimensional stability and easy handling characterise the Wirosil® duplicating flask system
- It consists of:
  - The base that holds the model
  - The sleeve with the optimal shape for upper and lower jaw models
  - The stabilisation insert of crucial importance for precision after removal of the master model and
- Three replaceable palate formers that essentially support reproduction accuracy and enable extremely economical silicone consumption through flexible positioning

Product details

Availability	Dimensions W × H × D (mm)	REF
Wirosil® duplicating flask system incl. stabilisation ring with 3 palate formers		
small	90 × 55 × 68	52072
large	105 × 60 × 78	52083

Accessories	
Stabilisation ring with 3 palate formers:	
for small duplicating flask	52079
for large duplicating flask	52084
Wirosil® Stabilisation ring small (10 pieces)	54881
Wirosil® Stabilisation ring large (10 pieces)	54882

Durol E

Eco hardening liquid

- The ecological dipping hardener Durol E is solvent-free and therefore completely biologically safe. During drying, hardly any odour develops since there are no solvents present
- Contamination can be easily removed with water
- 25 % saving in time and energy, because a drying temperature of 150 °C is sufficient

Product details

Availability	Contents	REF
Durol E Eco hardening liquid	1 l bottle	52148

Durol/Durofluid

Hardening liquid

- Cold hardener for investment models
- Durol and Durofluid are used cold and penetrate extremely well into the surface of duplicate models during hardening; the models become hard and smooth
- Durol: the recommended drying temperature for the duplicate model is 250 °C
- Durofluid: to promote the adhesion of wax moulded parts, investment material models duplicated in silicone can be dried at approx. 70 °C–100 °C for approx. 10 minutes. The investment material models are then sprayed with a thin and even layer of Durofluid modelling spray

Product details

Availability	Contents	REF
Durol dipping hardener	1 l bottle	52111
Durofluid modelling spray (1 spray bottle)	100 ml bottle	52008

4

Modelling

Preparation wax

for the partial denture technique

- The preparation wax is exceptionally malleable, allowing it to be adapted to the master model perfectly and with firm adhesion, which saves having to use an additional wax adhesive
- The exemplary shape retention and edge strength of the preparation wax, with a high solidification point of approx. 70 °C, mean that it can be used with duplicating hydrocolloid at working temperatures of 55 °C
- Simple removal from the master model following duplication rounds off the user-friendly working characteristics perfectly

Product details

Availability	Contents	REF
Preparation wax, color: red, sheet size 17.5 x 8 cm		
0.5 mm	15 sheets	40036
0.6 mm	15 sheets	40037
0.7 mm	15 sheets	40038

Blocking-out wax

Tailored to the particular requirements of the partial denture technique

- This wax was developed for blocking out undercuts, creating clasp steps and relieving critical areas of the model
- This blocking-out wax can be easily scraped and cut, is hard and thus ensures the dimensionally-stable, well-defined reproduction of clasp steps on the investment model
- The boiling-out temperature of approx. 90 °C, the setting temperature of approx. 68 °C and the melting temperature of approx. 80–85 °C guarantee reliability and resilience during duplication, even at high temperatures

Product details

Availability	Contents	REF
Blocking-out wax, color: pink	70 g tin	40032

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Smooth casting wax

- Simple, crease-free adaptation
- Adheres firmly to the investment model and burns out leaving no residue
- The high transparency of the wax makes for optimal clarity of the construction markings on the master model and saves unnecessary, time-consuming corrections to the wax-up

Product details

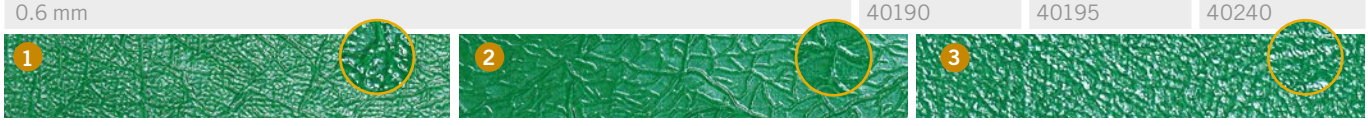
Availability	Contents	REF
Smooth casting wax, color: green, Sheet size 17.5 × 8 cm		
0.25 mm	15 sheets	40091
0.3 mm	15 sheets	40092
0.4 mm	15 sheets	40093
0.5 mm	15 sheets	40094
0.6 mm	15 sheets	40095

Stippled casting wax

- Tried and tested wax for modelling the bases of upper partial dentures
- Can be easily adapted and adheres firmly to the investment model with no additional wax adhesive
- The stippled casting wax is available in three different surface textures – from fine to coarse – and allows customisation of the surface shape as required by the practitioner
- The individual stippling of the cast partial denture base facilitates the gripping of food and reduces the foreign body sensation for the patient's tongue

Product details

Availability			Contents
Stippled casting wax, color: green Sheet size 15 × 7.5 cm			15 sheets
	REF 1 coarse veined	REF 2 medium veined	REF 3 fine veined
0.35 mm	40160	40192	40210
0.4 mm	40170	40193	40220
0.5 mm	40180	40194	40230
0.6 mm	40190	40195	40240



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Wax profiles

- Tried and tested wax profile shapes make for easy, customised wax-up for a wide range of indications in dental technology
- BEGO wax profiles are very easy to mould, do not bend up and can be easily fixed to the investment model
- The wax formula is designed to provide high internal stability and thus offers remarkable protection against inadvertent deformation and constriction during shaping

Product details

Availability	Contents	REF
Wax profiles, color: green, length 17 cm		
0.8 mm beading wire	30 g	40261
1.0 mm beading wire	40 g	40263
1.35 mm sprues	50 g	40301
1.6 × 4.0 mm bars, lower jaw	75 g	40421
2.0 × 4.0 mm bars, lower jaw	85 g	40422
1.15 × 1.75 mm clasps, continuous clasps	50 g	40441
2.0 × 4.5 mm casting strips, upper jaw (small bases)	90 g	40462
2.0 × 6.5 mm casting strips, upper jaw	125 g	40461

Wax profile assortment

- The BEGO wax profile assortment includes the most widely used profiles for wax-ups, which come in a practical box with compartments
- Medium-hard wax quality

Product details

Availability	Contents	REF
Wax profile assortment, color: green, length 17 cm consisting of:		40250
0.8 mm beading wire	6 g	
1.35 mm Wax wire for sprues	10 g	
2.0 × 4.0 mm bars, lower jaw	17 g	
2.0 × 6.5 mm casting strips, upper jaw	2 × 25 g	
1.15 × 1.75 mm clasps, cont. clasps	10 g	

Anatomical wax bar profiles

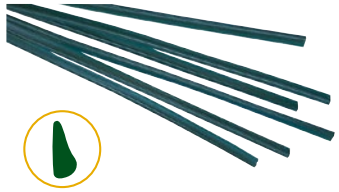
for lower-jaw partial denture frames

- The rounded upper edge and concave shape facing the tongue plus the anatomical lower-jaw profile make for good patient acceptance

Tip: For periodontal prophylaxis, a distance of 4 mm should be maintained between the gingival margin and the upper edge of the bar in the case of lower-jaw partial denture bases

Product details

Availability	Contents	REF
Anatomical wax bar profile, color: green, length 17 cm	15 pieces	40075



Modelling wax starter set

for the partial denture technique

- The modelling wax starter set for the partial denture technique includes the most commonly used wax patterns and profiles, ideal for familiarisation and for dental laboratories with a small proportion of partial dentures
- The various profiles cover almost all the indications of the partial denture technique
- The modeling wax start set offers the possibility to get started immediately and to wax-up almost all of the partial denture works in the laboratory
- The selected waxes for the partial denture technique are smooth and still offer a stable wax-up, so they can be easily and safely formed into the desired shape on the investment model
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Contents	REF
Modelling wax starter set Content: • 5 g Tin blocking-out wax • 1 × Sheet preparation wax • 1 × Sheet smooth casting wax • 1 × Sheet stippled casting wax medium veined • 2 × Wax clasp profiles, medium hard • 2 × Upper wax grid retentions • 2 × Wax retentions for lower-jaw • 2 × Anatomical wax bar profiles for lower-jaw • 2 × Casting strips, upper jaw, each dimension 4.5/6.5 mm • 2 × Wax wire for sprues Ø 4 mm • 2 × Beading wax wire Ø 0.8 mm	1 set	40251

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

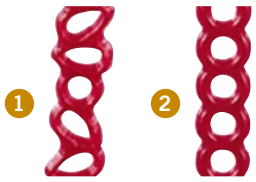
Wax retentions

for lower-jaw partial denture frames

- For the secure attachment of plastic saddles to lower partial dentures

Product details

Availability	Contents	REF
Color: red, length: 17 cm		
1 Wax hole retentions	15 pieces	40620
Wax hole retentions (laboratory pack)	150 pieces	40630
2 Wax retentions with round holes	15 pieces	40051
Wax retentions with round holes (laboratory pack)	150 pieces	40052



Wax grid retentions

for maxillary partial denture frames

1 Wax grid retentions – permit the simple and effective shaping of retentions to total or partial dentures. They guarantee a high level of security in the connection between the resin and the partial denture plate. The large grid retentions facilitate very economical use of material

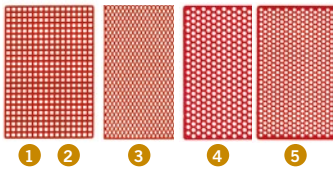
2 the same as 1 but with a larger plate

3 Wax diagonal grid retentions – for shaping the retentions for partial dentures. This particularly advantageous shape offers a very high degree of security in the connection between the resin and the dentures

4 + 5 Wax grid retentions with holes – can be used as retentions for partial maxillary dentures and as a reinforcement for acrylic full maxillary acrylic dentures

Product details

Availability	Contents	REF
Wax grid retentions, color: red		
1 60 × 42 mm	25 pieces	40060
2 100 × 100 mm	10 pieces	40062
3 75 × 150 mm	10 pieces	40061
4 for partial upper-jaw dentures, 70 × 70 mm	20 pieces	40066
5 for upper-jaw dentures, 70 × 70 mm	20 pieces	40039



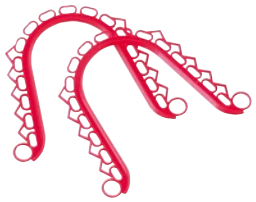
Wax border strips

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

Product details

Availability	Contents	REF
Wax border strips, color: red, length 17 cm	25 pieces	40025



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
- BEGO wax clasp profiles are very easy to mould, do not bend up and can be easily and securely fixed on the investment model
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Contents	REF
Wax clasp profiles, color: green, (280 clasps)	10 sheets	40020

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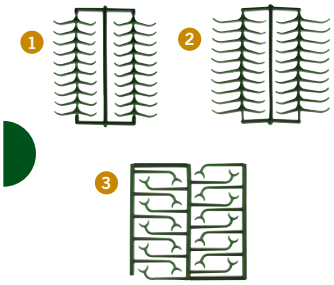
Wax patterns/wax clasp profile

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

Product details

Availability	Contents	REF
Wax patterns / wax clasp profile color: green (200 clasps)		
1 for premolars	10 sheets	40021
2 for molars	10 sheets	40022
3 for Bonyhard clasps	10 sheets	40024



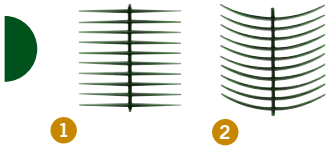
Wax patterns

Ring clasp profile

- Slender standard clasp profiles for molars
- BEGO wax clasp profiles help saving time during modelling. The wax shapes can be customised by shortening or lengthening

Product details

Availability	Contents	REF
Wax patterns ring clasp profile color: green		
1 straight	10 sheets	40029
2 curved	10 sheets	40023



Wax wire

for sprues

- BEGO wax wires are very easy to shape, do not bend up, and burn out leaving no residue. This allows casting of stress-free constructions and even pressable ceramics
- The wax formula is designed to provide high internal stability and offers remarkable protection against inadvertent deformation and constriction during bending
- The wax wire enables economizing due to only cutting off the required length
- An opening on the side of the outer packaging allows the wax wire to be fed directly from the pack, thus offering optimal protection against undesirable impurities and deformations

Product details

Availability	Contents	REF
Wax wire, medium-hard, color: green		
Ø 2.5 mm, approx. 50 m	250 g roll	40085
Ø 3.0 mm, approx. 36 m	250 g roll	40086
Ø 3.5 mm, approx. 28 m	250 g roll	40087
Ø 4.0 mm, approx. 21 m	250 g roll	40088
Ø 5.0 mm, approx. 17 m	250 g roll	40089

Plastic sticks and plastic hollow sticks

for distribution channels

- Plastic sticks and hollow plastic sticks are used as a casting reservoir in the sprue technique for casting
- They stabilise the wax-up when using the lift-off technique for crowns and bridges, can be easily shaped over a flame, and burn out leaving no residue
- Hollow sticks are used in metal-ceramic work for non-precious alloys and alloys with a reduced precious metal content, especially in larger multi-unit constructions

Product details

Availability	Contents	REF
Sticks, length 17 cm, Ø 2.5 mm ● (Cross section 1:1)	40 pieces	52590
Hollow sticks, length 16.5 cm, Ø 5 mm ◎ (Cross section 1:1)	12 pieces	52595

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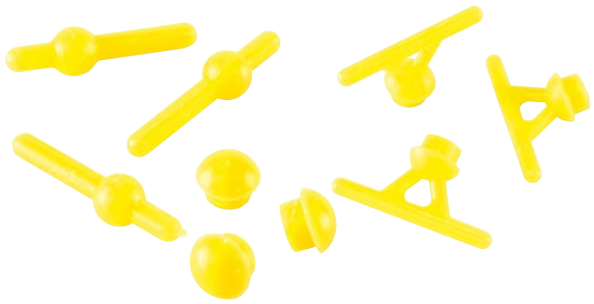

Rapid-Wax-System

compatibel with Rapid Ringless System

- Time savings as compared to individual sprue system technique
- Secure position and dimensions for good casting results
- Reliable sprue transitions support optimal flow behaviour of the alloy
- Modelling wax that burns without residue

Product details

Availability	Contents	REF
Direct wax sprues		
Ø 2.0 mm	250 pieces	40654
Ø 2.5 mm	250 pieces	40655
Ø 3.2 mm	250 pieces	40656
Ø 5.0 mm with distributor bar	100 pieces	40652
Ø 5.0 mm with distributor bar	250 pieces	40653
Wax button for Rapid Ringless System	100 pieces	40657

Occlusal wax

- Ideal for efficient and aesthetic modelling of occlusal surfaces. BEGO occlusal wax is available in two pastel shades to facilitate the shaping of occlusal surfaces. The choice of shades is a matter of personal preference. The advantage of light pastel shades, as with all BEGO occlusal waxes, is that they provide high-contrast visualisation of waxed-up occlusal surface contours, thereby great facilitating the implementation of occlusal concepts
- A high degree of hardness is necessary when modelling occlusal surfaces in order to prevent compression at the contact points between maxilla and mandible
- BEGO occlusal wax is very ductile because of its high surface tension. Wax drops form a ball when solidified, enabling even the most delicate occlusal contours to be waxed
- BEGO occlusal waxes do not stain, are not sticky and are very easy to mill. They also meet the highest dental technology standards
- Solidification point approx. 59 °C

Product details

Availability	Contents	REF
Occlusal wax, color: grey	70 g tin	40114
Occlusal wax, color: ivory	70 g tin	40118

Crown wax

- Hard and medium-hard wax compositions in blue, dark blue, grey and dentine ensure optimum waxing of all types of crowns
- Colour preferences and facilitate customised contouring can be easly provided by three shades
- The balanced shrinkage of BEGO crown and bridge waxes is reduced to a minimum by the selective use of high-quality raw materials and rigorous production management
- BEGO crown wax is particularly suitable for waxing up with either an open flame or an electric wax knife
- Both waxes (medium-hard/hard) have ideal carving properties and solidify quickly, enabling them to be applied very quickly. The choice of version depends essentially on the technician's preference, the ambient conditions (room temperature) and the stability required when removing the model or when investing
- BEGO crown waxes can also be used for inlays thanks to their working characteristics
- The solidification point of hard crown wax is approx. 61 °C, medium-hard crown wax approx. 60 °C

Product details

Availability	Contents	REF
Crown wax hard: color blue	70 g tin	40111
Crown wax hard: color grey	70 g tin	40145
Crown wax hard: color dentin	70 g tin	40146
Crown wax medium-hard: color dark blue	70 g tin	40115
Crown wax medium-hard: color grey	70 g tin	40147
Crown wax medium-hard: color dentin	70 g tin	40148

Milling wax

- BEGO milling waxes in green and grey are specially formulated to meet the particular challenges of machine processing
- The ideal hardness of the wax prevents shavings from adhering to the wax-up and clogging up the milling tool, so the view of the milled surface is unobstructed at all times
- The grey milling wax is also formulated with the maximum possible opacity, thus enabling optimal visual assessment of the milled surfaces and contours
- Also ideal for milled bar constructions, e.g. on implants, thanks to its hardness and excellent milling properties
- The solidification temperature of both milling waxes is approx. 62 °C
  Tip: Optimal milling speed in the range 2,500–5,000 rpm (depending on the cutting edge geometry and diameter of the cutter)

Product details

Availability	Contents	REF
Milling wax hard, color green	70 g tin	40113
Milling wax extrahard, color grey	70 g tin	40119

Cervical wax

- BEGO cervical wax for cervical edges in eggplant (aubergine) is a tension-free wax on which extremely high demands are placed during modelling
- BEGO cervical wax is completely tension-free after modelling and is therefore highly recommended for details on cervical edges of crowns, precision parts and as undercut wax of inlays
- The cervical wax burns out leaving no residue, making it suitable for the ceramic pressing technique as well
- Thanks to the finely adjusted formulation and careful monitoring of all raw material properties, the cervical wax undergoes only very slight shrinkage after the individual layers have been applied
- BEGO cervical wax has a very low limit of elasticity, so any deformation only has a plastic effect. This allows safe wafer-thin modelling up to the preparation margin
- Solidification temperature approx. 62 °C.

Product details

Availability	Contents	REF
Cervical wax, color eggplant	70 g tin	40112

ScanWax/ScanBlock

- An increasing number of waxed-up restorations are being scanned using the CAD/CAM technique
- The use of highly opaque wax is the most effective way of preventing translucent effects and ensuring optimal data generation
- Precision dental restorations using the CAD/CAM technique can only be fabricated if there is high data density
- The high degree of hardness and opacity of BEGO ScanBlock wax also makes it ideal for waxing up restorations fabricated by the milling technique, and for modelling standard crowns and bridges
- A wax with very high opacity is required for blocking out small cavities on the plaster die in CAD/CAM work
- Translucent effects cause data loss during scanning. ScanBlock ensures data density, even with thin layers of wax
- The solidification temperature of both waxes is 62 °C

Product details

Availability	Contents	REF
ScanWax, color dentine	70 g tin	40151
ScanBlock, color sky-blue	70 g tin	40152

Dipping wax

1 **Dipping wax**
2 **Dipping wax hard-elastic**
1 For the fabrication of wax copings for the crown and bridge technique
1 Processing temperature 70–75 °C
2 Processing temperature of the hard elastic dipping wax approx. 95 °C

2 The red BEGO hard-elastic dipping wax ensures a distinct, reproducible quality of coping. The viscosity remains constant even if the wax is kept at stand-by temperature for a long time, and thus enables targeted control of the coping thickness. Only contains organic components

Product details

Availability	Contents	REF
1 Dipping wax color green	150 g pack	40009
2 Dipping wax hard-elastic color red	70 g tin	40155

Rapidi

Modelling knife

- The Rapidi modelling knife is ideal for cutting, scraping and modelling
- Easy-to-change blade

Product details

Availability	Contents	REF
Rapidi modelling knife	1 piece	52270
Rapidi spare blades	40 pieces	52280

Isocera

Separating liquid for the crown and bridge technique

- Isocera separates wax from the plaster model very effectively
- Highly suitable for insulating plaster dies when copings are created using the wax dipping technique

Product details

Availability	Contents	REF
Isocera	200 ml bottle	52705

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

Product details

Availability	Contents	REF
Aurofilm	1 l bottle	52015
Aurofilm (spray bottle – for refilling)	100 ml bottle	52019

Adapta deep-drawing system

- Simple and fast deep-drawing of copings
- Reasonably priced system which has been proven over many years with special plastic foils
- A uniform minimum wall thickness ensures a high level of stability in the copings
- Ideal for the double-crown technique; coated with milling wax, the Adapta coping offers a high level of protection against inadvertent milling through
- The thin 0.1 mm spacer foil, which is used as part of the system, frees up the necessary, defined space for the luting material

Product details

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	Contents	REF
Adapta mastic (spare pack)	1 pack.	20503
Forming tub with Adapta mastic, 1 Forming tub	1 piece	20504
Adapta foil holder	1 piece	20510
Adapta foil dispenser incl. 100 × 0.6 mm	100 pieces	20519
Adapta foil dispenser incl. 200 × 0.1 mm	200 pieces	20521
Adapta Spacer foils, 0.1 mm transparent	200 pieces	20517
Adapta Spacer foils 0.1 mm red	200 pieces	20502
Adapta foils 0.6 mm, transparent	100 pieces	20501

5

Investing

WiroFine

Universal investment material for all indications in the partial denture and combination technique, for gel or silicone duplication

- Can be heated rapidly or conventionally to 1,050 °C with ideal expansion values, offers the level of flexibility essential for the modern dental laboratory
- Rapid preheating up to 1,000 °C: Insertion temperature = final temperature – means a time saving of 20 % – 30 % in comparison to investment materials which have to be heated from 600 °C
- Ideal flow properties make for reliable, fatigue-free working, since even the finest areas are precisely reproduced
- The precision of the duplicate models, along with high edge strength, makes for an optimal accuracy of fit without timeconsuming finishing – ideal for combination work
- Can be used for all shapes of mould and wax-up geometries: System-independent whilst ensuring reliable, efficient processing
- Excellent deflasking properties thanks to the minimal reaction between the investment material and the alloy. The advantage for you: Time saving and economical use of blasting materials
- Free selection of duplicating method:
  - Duplication with gel results in good model surfaces and cost effectiveness
  - Combination with silicone duplication (e.g., Wirosil®) facilitates maximum precision and time savings (no hardening necessary)
- Reliable expansion control for excellent fit results thanks to the special liquid BegoSol® K*

Product details

Physical data	
Mixing liquid	BegoSol® K / optional BegoSol®**
Processing time at 20 °C	approx. 3:30 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	11 MPa
Linear thermal expansion	0.8 %
Flowability	approx. 140 mm

Availability	Contents	REF
WiroFine, 45 × 400 g bag	18 kg carton	54345
WiroFine, 15 × 400 g bag	6 kg carton	54344
WiroFine, 30 × 200 g bag	6 kg carton	54348
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Is sensitive to freezing· ** BegoSol® (with freeze protectionz,Anti-freeze optimization up to –10 °C) only suitable for conventional preheating
Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Wiroplus® S

Precision partial denture investment material for the silicone duplication technique

- Long working time for perfect filling– even with the finest details – makes for reliable processing
- The high edge strength makes for stable, precise modelling
- Very smooth duplicate models and equally smooth cast surfaces ensure impressive accuracy of fit and minimise the finishing required
- Optimal expansion parameters mean a reproducible accuracy of fit plus considerable time savings, especially on milled surfaces
- Very good deflasking properties save time and reduce material consumption
- Reliable expansion control for excellent fit results with BegoSol®* mixing liquid

Product details

Physical data	
Mixing liquid	BegoSol®
Processing time at 20 °C	approx. 4 min.
Shelf life in unopened bag	24 months

Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	5:30 min.
Compressive strength	18 MPa
Linear thermal expansion	1.2 %
Flowability	approx. 130 mm

Availability	Contents	REF
Wiroplus® S, 45 × 400 g bag	18 kg carton	50248
Wiroplus® S,30 × 200 g bag	6 kg carton	54353
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

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WiroFast

Partial denture investment material suitable for shock heating

- WiroFast is the phosphate-bonded partial denture investment material developed specifically to offer both homogeneous duplication properties in gel and optimal suitability for shock heating
- The mould is inserted directly into the furnace, which is preheated to 900 °C, only 10 minuntes after investing, which represents a considerable reduction in the duration of the heating process
- Optimal duplication properties in gel for very smooth model surfaces – duplication in silicone is also possible
- Excellent flow properties facilitate fatigue-free working – even on slender model parts
- Ideal deflasking properties shorten the deflasking process and reduce the necessary use of blasting materials
- Excellent accuracy of fit and smooth cast objects ensure little effort is expended on adjustments to the cast
- Suitability for both shock heat and conventional heating processes offers the flexibility required for day-to-day work in the laboratory
- As a mixing liquid, BegoSol®*ensures economical processing all year round

Product details

Physical data	
Mixing liquid	BegoSol®
Processing time at 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)	approx. 5 min.
Compressive strength	approx. 11.9 MPa
Linear thermal expansion	approx. 0.8 %
Flowability	approx. 141 mm

Availability	**Contents**	**REF**
WiroFast, 45 × 400 g bag	18 kg carton	54834
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

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Wirovest®

Standard investment material for the partial denture technique

- Classic phosphate-bonded partial denture investment material with particularly good results in the gel-duplication technique
- High expansion for accuracy of fit and minimal finishing
- Smooth model surfaces facilitate modelling and ensure equally smooth cast surfaces
- When mixed with water (for pouring the cylinder), Wirovest® exhibits a significantly reduced deflasking hardness – this saves time and money
- BegoSol®* mixing liquid (frost protected to –10 °C) for assured procurement all year round

Product details

Physical data		
Mixing liquid	BegoSol®	
Processing time at 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 min.	
Compressive strength	15 MPa	
Linear thermal expansion	1.15 %	
Flowability	approx. 115 mm	

Availability	Contents	REF
Wirovest®, 45 × 400 g bag	18 kg carton	51046
Wirovest®, 15 × 400 g bag	6 kg carton	51057
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

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Wirovest® plus

Enhanced version of Wirovest® partial denture investment material

- Wirovest®plus offers the benefits of extended working time and universal suitability for duplication within all conceivable areas of indication
- Wirovest®plus is a partial denture investment material which achieves excellent accuracy of fit with a wide range of duplication techniques and working parameters
- Extended working time enables fabrication of several models and moulds in a single working step, thus saving time
- Very smooth surfaces ensure equally smooth casting results
- Precise duplicate models with high edge strength make for easy modelling and exactly fitting castings, without the need for timeconsuming finishing
- The good deflasking properties reduce the effort required in deflasking and simplify the cleaning of the cast object
- Qualified for conventional casting of plotted CAD/Cast®-frames
- BegoSol®* Mixing liquid for simple expansion control

Product details

Physical data	
Mixing liquid	BegoSol®
Processing time at 20 °C	3:15 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. 6 min.
Compressive strength	15 MPa
Linear thermal expansion	1.15 %
Flowability	approx. 120 mm

Availability	Contents	REF
Wirovest® plus, 45 × 400 g bag	18 kg carton	54821
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

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Bellavest® SH

Shock heat – rapidly or conventionally heatable precision casting investment material for crowns and bridges – also those made from pressable or press-to-metal ceramics

- The precision crown and bridge investment material Bellavest® SH offers outstanding versatility and flexibility
- Appointments can be coordinated with ease because Bellavest® SH can either be preheated rapidly, with an insertion temperature of up to 900 °C, or conventionally
- Phosphate-bonded precision casting investment material offers reliable, simple handling along with optimal parameters of use
- Simple to use with the special mixing liquid BegoSol®* HE for maximum flexibility in conjunction with just a single liquid
- Precise expansion control and fine, creamy consistency for reliable processing and reproducible quality for a range of indications, from pressable ceramics to telescopic crowns made from non-precious alloys
- Long working time of 5 minutes enables reliable, fatigue-free working
- Extremely smooth cast surfaces make for a good accuracy of fit and time savings due to minimal finishing times
- Cures with a high edge-strength, yet still permits easy deflasking. This implies time savings and economical usage of blasting materials for the user

Product details

Physical data		
Mixing liquid	BegoSol® HE	
Processing time at 20 °C	approx. 4:30–5 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	4.2–5.1 MPa	
Linear thermal expansion	0.85 %	
Flowability	approx. 140 - 145 mm	

Availability	Contents	REF
Bellavest® SH, 80 × 160 g bag	12.8 kg carton	54252
Bellavest® SH, 30 × 160 g bag	4.8 kg carton	54247
Bellavest® SH, 144 × 90 g bag	12.96 kg carton	54257
Bellavest® SH, 50 × 100 g bag	5 kg carton	70060
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* BegoSol® HE is sensitive to freezing.

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Bellavest® DR

Low-dust, shock heat or conventionally heatable precision casting investment material for crown and bridge techniques

- The new precision crown and bridge investment material Bellavest® DR is characterised by its considerably (up to 80 %) reduced dust creation during processing which in turn contributes to a significant reduction of harmful quartz and cristobalite dust in laboratories
- Bellavest® DR can be heated conventionally or using shock heat at an insertion temperature of up to 900 °C and results in a considerable reduction in the duration of the heating process
- Bellavest® DR has been developed based on tried-and-tested Bellavest investment materials and thus offers simple handling along with optimal parameters of use
- Bellavest® DR is a phosphate-bonded precision casting investment material with a long processing time of approx. 5 minutes for reliable and fatigue-free processing
- Precise expansion control and a fine and creamy consistency ensure smooth casting surfaces and consistent reproducible fit results
- Simple to use with the special mixing liquid BegoSol® HE* for maximum flexibility in conjunction with just a single liquid
- Bellavest® DR cures with a high edge-strength, yet still permits easy deflasking which means time savings and the economic use of blasting materials for the user

Product details

Physical data	
Mixing liquid	BegoSol® HE
Processing time at 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)	approx. 10 min.
Compressive strength	approx. 5 MPa
Linear thermal expansion	approx. 1.1 %
Flowability	approx. 135 - 140 mm

Availability	**Contents**	**REF**
Bellavest® DR, 80 × 160 g bag	12.8 kg carton	54861
Bellavest® DR, 30 × 160 g bag	4.8 kg carton	54862
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* BegoSol® HE is sensitive to freezing.

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BellaStar XL

The premium investment material for crowns and bridges

- Extremely fine-grained with an excellent accuracy of fit
- Ideal for precious-metal alloys, but also well suited for non-precious alloys in many indications
- BellaStar XL is suitable for rapid or conventional heating and the insertion temperature can be the same as the final temperature
- Thin-to-creamy consistency and optimal flow properties allow problem-free filling of even the finest model details
- Fine-grained raw materials make for extremely smooth and precise cast surfaces
- The casting mould can be fabricated with a fixed ring or without a ring, and the mould sizes can be freely selected
- Outstanding deflasking properties make it easier to remove the investment material This saves time and emphasises the balanced application properties
- BellaStar XL stands for flexibility and trusted, reliable and fatigue-free processing with superb precision
- Reliable expansion control for excellent fit results thanks to BegoSol® K* special liquid

Product details

Physical data	
Mixing liquid	BegoSol® K
Processing time at 20 °C	approx. 3:30 min.
Shelf life in unopened bag	24 months

Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	7:30 min.
Compressive strength	5.5 MPa
Linear thermal expansion	1.1 %
Flowability	approx. 135 mm

Availability	**Contents**	**REF**
BellaStar XL, 80×160 g bag	12.8 kg carton	54362
BellaStar XL, 30×160 g bag	4.8 kg carton	54361
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing.

Bellavest® T

The precision casting investment material for the crown and bridge technique

- For precious-metal and non-precious metal alloys
- Standard investment material with a proven track record worldwide and high reliability in accuracy of fit and processing
- Bellavest® T is preheated using conventional methods only
- Creamy consistency for smooth castings with accuracy in every detail
- Working time of 5 minutes for reliable, fatigue-free investing
- BegoSol® ensures reliable expansion control; BegoSol® HE* – as an alternative – enables higher expansion values
- Bellavest® T has, for many years, been synonymous with clear and simple handling and confidence in optimal results with great economy

5

Product details

Physical data		
Mixing liquid	BegoSol® oder BegoSol® HE	
Processing time at 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)	9:30 min.	
Compressive strength	10 MPa	
Linear thermal expansion	1.2 %	
Flowability	approx. 125 mm	

Availability	Contents	REF
Bellavest® T, 80 × 160 g bag	12.8 kg carton	54202
Bellavest® T, 30 × 160 g bag	4.8 kg carton	54201
Bellavest® T, 144 × 90 g bag	12.96 kg carton	54213
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091
BegoSol® HE mixing liquid	1 l bottle	51095
BegoSol® HE mixing liquid	5 l canister	51096

DIN EN ISO 15912

* Alternatively, for greater expansions: BegoSol® HE mixing liquid. BegoSol® HE is sensitive to freezing.

Bellasun

The conventionally heatable crown and bridge investment material

- Bellasun is characterised by reliable processing, precision-fitting results and extra-long working time: at least 3 minutes at an ambient temperature of 30 °C
- Excellent flow properties combined with a long working time make for fatigue-free and reliable investing in all crown and bridge indications
- BegoSol®* allows reproducible expansion control and ensures excellent accuracy of fit with precious-metal and non-precious alloys
- Universal use of all shapes and sizes of mould and the low deflasking hardness round off the working characteristics
- Bellasun delivers exemplary quality even at unfavourable working temperatures

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Product details

Physical data	
Mixing liquid	BegoSol®
Processing time at 20 °C	approx. 7 min.
Processing time at 30 °C	approx. 4 min.
Shelf life in unopened bag	24 months

Characteristic values of the material according to DIN EN ISO 15912	
Beginning of solidification (Vicat time)	13 min.
Compressive strength	7.5 MPa
Linear thermal expansion	1.36 %
Flowability	approx. 155 mm

Availability	Contents	REF
Bellasun 80×160 g bag	12.8 kg carton	54270
The packages do not contain any mixing liquid.		

Accessories		
BegoSol® mixing liquid	1 l bottle	51090
BegoSol® mixing liquid	5 l canister	51091

DIN EN ISO 15912

* Anti-freeze optimization up to –10 °C

Improved formula and changed liquid!

VarseoVest P plus

Phosphate-bonded, shock-heat precision investment material, especially for casting 3D printed partial denture frames

- Specially developed for the investing of 3D printed partial denture frames
- Creates an excellent fit and smooth surfaces of the cast objects – after each casting and even with pressureless investing
- Outstanding flow properties ensure easy investing even on slender object details; long working time of more than 4:40 min. enables fatigue-free processing
- The mould is inserted directly into the furnace, which is preheated to 900–950 °C, only 20 min. after investing – for a considerable reduction in the duration of the heating process
- Impressive strength of the investment material ensures that the moulds do not crack or tear as a result of the plastic expanding – which forms the basis for reliable further processing
- Despite its strength, an easy deflasking of the cast object is possible
- Unambiguous expansion control with the special mixing liquid BegoSol® K* ensures reproducible fit results
- Easy application by a comparable processing method to partial denture investment materials

Product details

Physical data	
Mixing liquid	BegoSol® K
Processing time at 21 °C	approx. 4:40 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. 9:50 min.
Compressive strength	approx. 8 MPa
Linear thermal expansion	0.9 %
Flowability	145 mm

Availability	Contents	REF
VarseoVest P plus, 72 × 250 g bag	18 kg carton	54910
VarseoVest P plus, 60 × 300 g bag	18 kg carton	54911
VarseoVest P plus, 20 × 300 g bag	6 kg carton	54912
The packages do not contain any mixing liquid.		

Accessories	Contents	REF
BegoSol® K mixing liquid	1 l bottle	51120
BegoSol® K mixing liquid	5 l canister	51121
Silicone mould former	1 set	54877

Now to be used with BegoSol® K!

DIN EN ISO 15912

* BegoSol® K is sensitive to freezing.

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VarseoVest C&B

Phosphate-bonded, shock-heat precision investment material, especially for casting 3D printed crown and bridge frameworks

- Specially developed for the investing of 3D printed crown and brigde frameworks
- Creates an excellent fit and smooth surfaces of the cast objects – after each casting and even with pressureless investing
- Outstanding flow properties ensure easy investing even on slender object details; long working time of more than 3:15 min. enables fatigue-free processing
- The mould is inserted directly into the furnace, which is preheated to 900 °C, only 20 min. after investing – for a considerable reduction in the duration of the heating process
- Impressive strength of the investment material ensures that the moulds do not crack or tear as a result of the plastic expanding – which forms the basis for reliable further processing
- Despite its strength, an easy deflasking of the cast object is possible
- Unambiguous expansion control with the special mixing liquid BegoSol® CC ensures reproducible fit results
- Easy application by a comparable processing method to crown and brigde investment materials

Product details

Physical data	
Mixing liquid	BegoSol® CC
Processing time at 21 °C	approx. 3:15 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. 5:30 min.
Compressive strength	approx. 5 MPa
Linear thermal expansion	1.3 %
Flowability	140 mm

Availability	Contents	REF
VarseoVest C&B, 80 × 160 g bag	12.8 kg carton	54894
VarseoVest C&B, 30 × 160 g bag	4.8 kg carton	54895
Testset VarseoVest C&B incl. mixing liquids	1.6 kg set	54896
The packages do not contain any mixing liquid.		

Accessories	Contents	REF
BegoSol® CC mixing liquid	1 l bottle	54907
BegoSol® CC mixing liquid	5 l canister	54908
Silicone mould former	1 set	54877

New mixing liquid BegoSol® CC

DIN EN ISO 15912

* BegoSol® CC is sensitive to freezing.

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BegoForm®

Refractory stump material for ceramic inlays, onlays and veneers

- The expansion properties of BegoForm®, which have been tailored for the ceramics from well-known manufacturers, enable an excellent accuracy of fit for individually layered inlays, onlays and veneers
- Stumps with an extremely high edge-strength and smooth, precise surfaces mean optimal conditions for problem-free processing of ceramic materials – avoiding undesirable cracks, for example
- The consistently high firing stability of BegoForm®, even after several cycles, enables ceramic corrections without any loss of precision
- Pleasant deflasking properties round off the clear and simple handling
- Reliable expansion control for excellent fit results thanks to the special BegoForm® mixing liquid

Product details

Availability	Contents	REF
BegoForm®, 15 x 90 g bag with 1 metering syringe **The packs do not contain any mixing liquid. Please order the liquid and the invesment seperatly.**	1.35 kg carton	52785

Accessories		
BegoForm® mixing liquid	250 ml bottle	52786

BegoSol®

Mixing liquid for BEGO investment materials

- Depending on the alloy and the field of application, the required mixing ratio can be created for these liquids using distilled or demineralised water
- The higher the concentration of the mixing liquid, the greater the expansion of the investment material

Product details

Availability	Contents	REF
BegoSol®* Mixing liquid for Wirovest®plus, WiroFast, Wiroplus® S, Wirovest®, Bellavest® T and Bellasun	1 l bottle	51090
BegoSol®	5 l Kanister	51091
BegoSol® HE** Special-Mixing liquid for Bellavest® SH, Bellavest® DR, Bellavest® T, VarseoVest P	1 l bottle	51095
BegoSol® HE	5 l Kanister	51096
BegoSol® K** Special-Mixing liquid for WiroFine, BellaStar XL, VarseoVest P plus	1 l bottle	51120
BegoSol® K	5 l Kanister	51121
BegoSol® CC Special-Mixing liquid for VarseoVest C&B	1 l bottle	54907
BegoSol® CC Special-Mixing liquid for VarseoVest C&B	5 l Kanister	54908
Accessories		
Universal measuring cup 100 ml	1 piece	14607

* Anti-freeze optimization up to –10 °C
** Is sensitive to freezing·
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Bellatherm®

Phosphate-bonded soldering investment material

- Bellatherm® is dimensionally stable, thixotropic and suitable for high soldering temperatures
- Bellatherm® has extremely high edge-strength, enables an excellent accuracy of fit and can be separated from the soldered object under cold running water

5

Product details

Availability	Contents	REF
Bellatherm®	4.5 kg tub	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

Product details

Availability	Contents	REF
Wiropaint plus	200 ml bottle	51100

Rapid Ringless System

Compatible with BEGO Rapid wax system

- For all BEGO crown and bridge investment materials
- 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
- Time savings in relation to mould systems with foil sleeve, iron ring, etc.

Product details

Availability	Contents	REF
Casting ring and base		
Size 1 for up to 100 g of investment material	1 set	52665
Size 3 for up to 180 g of investment material	1 set	52666
Size 6 for 360 g of investment material	1 set	52667

Overview of BEGO investment materials

Indications and recommended liquid

Overview of BEGO investment materials

Crowns and bridges





Indication	Bellavest® SH	Bellavest® DR	Bellavest® T	BellaStar XL	Bellasun
Casting non-precious alloys	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓
Double crowns in non-precious alloys	✓✓✓	✓✓✓	✓✓ [1]	✓	✓✓✓
Casting precious alloys	✓✓	✓✓	✓✓	✓✓✓	✓✓
Pressable ceramics	✓✓✓	–	–	–	–
Implant prosthodontics	✓✓✓	✓✓✓	✓✓	✓✓✓	✓
CoCr partial-denture duplication with silicone	✓ [2]	–	✓ [2]	✓ [2]	✓ [2]
CoCr partial-denture hydrocolloid duplication	–	–	–	–	–
Technical data					
Shock heat	✓✓✓	✓✓✓	–	✓✓✓	–
Conventional	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Working time [3] (20°C) [min]	4:30–5:00	5:00	5:00	3:30	7:00
Flowability [mm]	140–145	135–140	approx. 125	approx. 135	approx. 155
Scope of delivery					
Accessories	REF 54257 144 × 90 g bag	REF 54861 80 × 160 g bag	REF 54213 144 × 90 g bag	REF 54362 80 × 160 g bag	REF 54270 80 × 160 g bag
	REF 70060 50 × 100 g bag	REF 54862 30 × 160 g bag	REF 54202 80 × 160 g bag	REF 54361 30 × 160 g bag	
	REF 54252 80 × 160 g bag		REF 54201 30 × 160 g bag		
	REF 54247 30 × 160 g bag				
Accessories					
BegoSol® mixing liquid REF 51090 (1 liter) REF 51091 (5 liter)	–	–	✓✓✓	–	✓✓✓
BegoSol® HE mixing liquid REF 51095 (1 liter) REF 51096 (5 liter)	✓✓✓	✓✓✓	✓✓✓	–	–
BegoSol® K mixing liquid REF 51120 (1 liter) REF 51121 (5 liter)	–	–	–	✓✓✓	–
BegoSol® CC mixing liquid REF 54907 (1 liter) REF 54908 (5 liter)	–	–	–	–	–

✓✓✓ optimal · ✓✓ recommended · ✓ suitable

[1] with BegoSol® HE · [2] lift-off procedure · [3] after mixing · [4] only conventional

Partial dentures | **3D-CAD/Cast®-frames**

WiroFine	WiroFast	Wiroplus® S	Wirovest®	Wirovest® plus	VarseoVest P plus	VarseoVest C&B
–	–	–	–	–	✓✓	✓✓✓
–	–	–	–	–	–	–
✓	✓	✓✓	✓	✓	–	✓✓
–	–	–	–	–	–	–
–	–	–	–	–	–	✓✓
✓✓✓	✓✓	✓✓✓	✓✓	✓✓	✓	–
✓✓	✓✓✓	–	✓✓✓	✓✓✓	–	–
✓✓✓	✓✓✓	–	–	–	✓✓✓	✓✓✓
✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	–	✓✓
3:30	3:00	4:00	3:00	3:15	4:40	3:15
approx. 140	approx. 141	approx. 130	approx. 115	approx. 120	approx. 145	approx. 140
REF 54348 30 × 200 g bag	REF 54834 45 × 400 g bag	REF 54353 30 × 200 g bag	REF 51046 45 × 400 g bag	REF 54821 45 × 400 g bag	REF 54910 72 × 250 g bag	REF 54894 80 × 160 g bag
REF 54345 45 × 400 g bag		REF 50248 45 × 400 g bag	REF 51057 15 × 400 g bag		REF 54911 60 × 300 g bag	REF 54895 30 × 160 g bag
REF 54344 15 × 400 g bag					REF 54912 20 × 300 g bag	
✓✓✓ [4]	✓✓✓	✓✓✓	✓✓✓	✓✓✓	–	–
–	–	–	–	–	–	–
✓✓✓	–	–	–	–	✓✓✓	–
–	–	–	–	–	–	✓✓✓

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Base socket mould formers

for crown and bridge work

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

Product details

Availability	Contents	REF
with hard rubber base plate		
Size 3	4 pieces	52627
Size 6	4 pieces	52628
Size 9	4 pieces	52629

Metal mould rings

for crown and bridge work

- Suitable for all BEGO crown and bridge investment materials
- Long service life thanks to special steel design

Product details

Availability	Contents	REF
Metal mould rings		
Size 3 – for 180 g of investment material	4 pieces	52422
Size 6 – for 360 g of investment material	4 pieces	52423
Size 9 – for 540 g of investment material	4 pieces	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

Product details

Availability	Contents	REF
Fleecy inlay strips for moulds		
40 mm	3 × 30 m	52409
45 mm	3 × 30 m	52408

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

Product details

Availability	Contents	REF
1 Funnel formers	100 pieces	52068
2 Funnel formers	10 pieces	52075
3 Funnel formers	10 pieces	52060
4 Funnel formers	10 pieces	52066

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
- Bases for lifting technique, ideal for plotted CAD/CAM frames and partial denture frames made from light-curing wax

Product details

Availability	Contents	REF
Mould former, small, red	4 pieces	52390
Mould former, large, blue	4 pieces	52400
Base with funnel former set (2 × large /2 × small)	4 pieces	52401
Silicon mould former incl. funnel former	1 piece	54877

6

Non-Precious Metal Alloys

Wirobond® 280

The non-precious premium alloy for more than 10 years

- Wirobond® 280 is setting standards in the non-precious metalto-ceramic alloy segment because of a Vickers hardness of 280 HV10, it can be finished to a particularly high standard
- Extremely corrosion resistant thanks to the optimal interaction of the indispensable elements chrome and molybdenum
- Very good melting and casting properties
- No prolonged cooling necessary*, even with large spans
- Secure bonding with ceramics
- High strength irrespective of the span size, and therefore a wide range of indications
- Reliable processing in accordance with the proven BEGO system
- Biocompatible and corrosion-resistant

6

Product details

Composition in % by mass
Co 60.2 · Cr 25.0 · W 6.2 · Mo 4.8 · Ga 2.9 · Mn · Si

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	8.6 g/cm³
Preheating temperature	900–1,000 °C
Solidus; liquidus temperature	1,355; 1,430 °C
Casting temperature approx.	1,500 °C
Young's modulus	220 GPa
Proof strength ($R_{p0.2}$)	480 MPa
Elongation after fracture (A_5)	9 %
Vickers hardness	280 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3

Availability	Contents	REF
Wirobond® 280	1,000 g	50134
Wirobond® 280	250 g	50135

Accessories		
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Wirobond®-soldering rods	4 g	52622

ISO 22674 · ISO 9693-1

* Exceptions: Creation (Willi Geller), Reflex® (Wieland Dental + Technik GmbH & Co. KG)
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Tried-and-tested worldwide for over 25 years

Wirobond® C

Cobalt-chrome metal-to-ceramic alloy

- Nickel- and beryllium-free
- Simple processing thanks to reliable casting time recognition
- Carbon-free composition – particularly well suited for laser welding
- The element cerium ensures high bond strength with the ceramic, minimising the risk of subsequent flaking or chipping
- Low thermal conductivity – protects the pulp and ensures high wearing comfort for the patient
- Biocompatible and corrosion-resistant thanks to a firmly-adhering passive layer

Product details

Composition in % by mass

Co 63.3 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0 · Ce

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	8.5 g/cm^3
Preheating temperature	900–1,000 °C
Solidus; liquidus temperature	1,360; 1,420 °C
Casting temperature approx.	1,500 °C
Young's modulus	180 GPa
Proof strength ($R_{p0.2}$)	440 MPa
Elongation after fracture (A_5)	16 %
Vickers hardness	315 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3

Availability	Contents	REF
Wirobond® C	1,000 g	50115
Wirobond® C	250 g	50116

Accessories		
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Wirobond® solder	4 g	52622

ISO 22674 · ISO 9693-1

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Reliable casting time recognition

Wirobond® SG

Cobalt-chrome metal-toceramic alloy

- Nickel- and beryllium-free
- Reliable use even in problematic cases and restorations with large bridge spans
- Simple and reliable casting time recognition thanks to optimal silicon content
- Normal cooling facilitates economical and effective working
- Reliable metal-ceramic bond with no need for an additional, expensive bonder
- Biocompatible and corrosion-resistant

6

Product details

Composition in % by mass

Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	8.6 g/cm^3
Preheating temperature	900–1,000 °C
Solidus; liquidus temperature	1,385; 1,420 °C
Casting temperature approx.	1,480 °C
Young's modulus	200 GPa
Proof strength ($R_{p0.2}$)	485 MPa
Elongation after fracture (A_5)	11 %
Vickers hardness	305 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	14.3

Availability	Contents	REF
Wirobond® SG	1,000 g	50128
Wirobond® SG	250 g	50127

Accessories		
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Wirobond® solder	4 g	52622

ISO 22674 · ISO 9693-1

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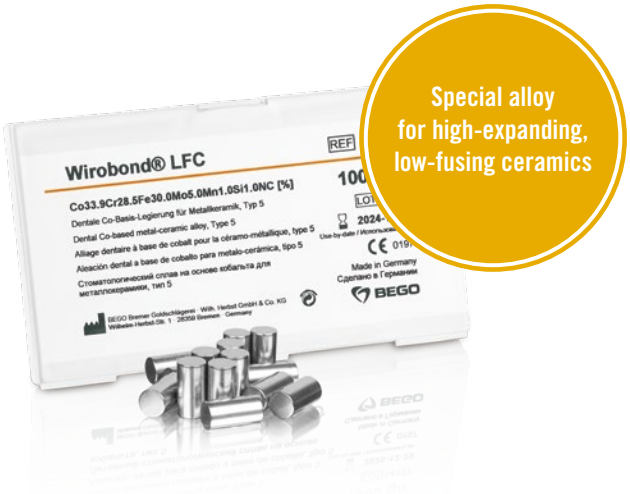

Wirobond® LFC

Special alloy for low-fusing ceramic materials

- Cobalt-chrome metal-to-ceramic alloy for high-expanding ceramics (low-fusing ceramic materials)
- The CTE value enables normal cooling – for economical and effective working
- Strong bond with the low-fusing ceramic – even when subjected to multiple firing
- Controlled carbon content – very well suited for soldering and laser welding
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Co 33.9 · Fe 30.0 · Cr 28.5 · Mo 5.0 · Mn 1.0 · Si 1.0 · C · N

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	7.9 g/cm³
Preheating temperature	900–1,000 °C
Solidus; liquidus temperature	1,335; 1,435 °C
Casting temperature approx.	1,480 °C
Young's modulus	205 GPa
Proof strength ($R_{p0.2}$)	655 MPa
Elongation after fracture (A_5)	17 %
Vickers hardness	315 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	15.6

Availability	Contents	REF
Wirobond® LFC	1,000 g	50255
Wirobond® LFC	250 g	50256

Accessories		
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Wirobond® solder	4 g	52622

ISO 22674 · ISO 9693-1

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Wiron® 99

Premium NiCr alloy for metal-to-ceramic work or composite veneering – beryllium-free

- Worldwide proven reliability in use since 1988
- Secure metal-ceramic bond, minimising the risk of subsequent flaking or chipping
- Low vickers hardness – for easy, fast finishing and polishing to a high lustre
- Simple casting time recognition – problem-free processing in all induction casting machines
- High modulus of elasticity for greater protection against deformations caused by masticatory forces
- High wearing comfort for patients thanks to the low thermal conductivity
- Biocompatible and highly corrosion-resistant thanks to a firmlyadhering passive layer

6

Product details

Composition in % by mass

Ni 65.6 · Cr 22.5 · Mo 9.5 · Si 1.0 · Ce · Mn · Nb

Alloy characteristics	Standard values
Type (ISO 22674)	3
Density	8.3 g/cm³
Preheating temperature	900–1,000 °C
Solidus; liquidus temperature	1,310; 1,360 °C
Casting temperature approx.	1,450 °C
Young's modulus	170 GPa
Proof strength ($R_{p0.2}$)	335 GPa
Elongation after fracture (A_5)	43 %
Vickers hardness	195 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.9

Availability	Contents	REF
Wiron® 99	1,000 g	50225
Wiron® 99	250 g	50226

Accessories		
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	5.5 m – 4 g	50006
Wiron® solder	4 g	52625

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Wiron® light

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

- Simple casting, easy finishing, reliable working
- The outstanding melting properties of the alloy ensure reliable filling of the mould
- The oxide of Wiron® light is considerably lighter in color in comparison to conventional NiCr alloys and can be removed very quickly and easily
- The reduced preheating temperature of 800°C means that a very smooth surface of the cast object is achieved
- Normal cooling with many of the ceramics – for time-saving, economical veneering
- The favourable CTE value permits reliable ceramic veneering
- Biocompatible and highly corrosion-resistant thanks to a firmly adhering passive layer

6

Product details

Composition in % by mass

Ni 64.6 · Cr 22.0 · Mo 10.0 · Si 2.1 · B · Mn · Nb

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	8.2 g/cm³
Preheating temperature	800 °C
Solidus; liquidus temperature	1,210; 1,280 °C
Casting temperature approx.	1,350 °C
Young's modulus	185 GPa
Proof strength ($R_{p0.2}$)	460 MPa
Elongation after fracture (A_5)	9 %
Vickers hardness	280 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.7

Availability	Contents	REF
Wiron® light	1,000 g	50270
Wiron® light	250 g	50272

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	5.5 m – 4 g	50006
Wiron® solder	4 g	52625
Diapol Diamond polishing compound	5 g	52305

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Inexpensive and economical

Wirocer plus

Nickel-chrome metal-to-ceramic alloy – beryllium-free

- Tried and tested alloy from BEGO – inexpensive thanks to an optimised manufacturing process
- Low hardness – easy and time-saving finishing
- Normal cooling – for economical veneering
- High wearing comfort for the patient thanks to the low thermal conductivity
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Ni 65.2 · Cr 22.5 · Mo 9.5 · Si 1.5 · Mn · Nb

Alloy characteristics	Standard values
Type (ISO 22674)	3
Density	8.3 g/cm^3
Preheating temperature	900–950 °C
Solidus; liquidus temperature	1,295; 1,360 °C
Casting temperature approx.	1,450 °C
Young's modulus	175 GPa
Proof strength ($R_{p0.2}$)	355 MPa
Elongation after fracture (A_5)	34 %
Vickers hardness	220 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10^{-6} K^{-1}	13.8

Availability	Contents	REF
Wirocer plus	1,000 g	50080

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	5.5 m – 4 g	50006
Wiron® solder	4 g	52625

ISO 22674 · ISO 9693-1

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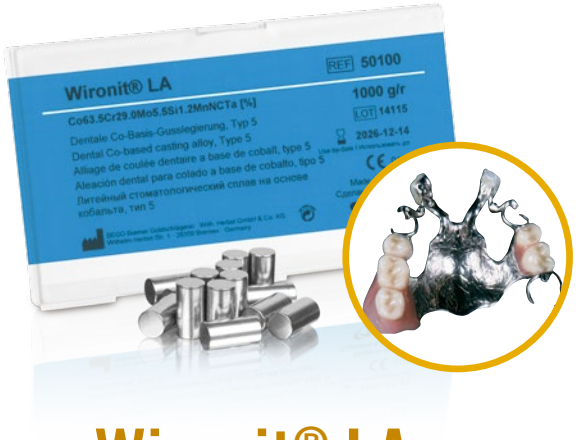

Wironit® LA

Specially developed for laser welding

- Wironit® LA – wide range of indications for reliable application in the partial denture and combination technique
- Controlled carbon content and the addition of tantalum ensure excellent laser welding properties even in extreme cases
- Low thermal conductivity means high wearing comfort for the patient
- Thanks to the high elongation of fracture, clasps can be activated without any problem
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Co 63.5 · Cr 29.0 · Mo 5.5 · Si 1.2 · C · Mn · N · Ta

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.2 g/cm³
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,260; 1,390 °C
Casting temperature approx.	1,450 °C
Young's modulus	240 GPa
Proof strength ($R_{p0.2}$)	690 MPa
Elongation after fracture (A_5)	9 %
Vickers hardness	365 HV10

Availability	Contents	REF
Wironit® LA	1,000 g	50100

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

ISO 22674

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Wironit®

The classic partial denture alloy for clasp partial dentures

- Successful worldwide since 1953 – ideally suited for conventional clasp partial dentures
- The reduced Vickers hardness allows easier finishing and polishing
- The clasps can be activated very easily by the dentist
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Co 64.0 · Cr 28.5 · Mo 5.0 · Si 1.0 · Mn 1.0 · C

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.3 g/cm^3
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,265; 1,395 °C
Casting temperature approx.	1,460 °C
Young's modulus	185 GPa
Proof strength ($R_{p0.2}$)	615 MPa
Elongation after fracture (A_5)	10 %
Vickers hardness	360 HV10

Availability	Contents	REF
Wironit®	1,000 g	50030
Wironit®	250 g	50020

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

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Wironit® extrahart

The ideal partial denture alloy for combination work

- Due to its high proof strength and ultimate strength, this alloy is ideally suited for combination work
- Outstanding casting properties thanks to the special composition with silicon and carbon
- Very low thermal conductivity of the alloy emphasises the wearing comfort of the prosthesis
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Co 63.0 · Cr 30.0 · Mo 5.0 · Si 1.0 · Mn 1.0 · C

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.2 g/cm³
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,260; 1,390 °C
Casting temperature approx.	1,420 °C
Young's modulus	185 GPa
Proof strength ($R_{p0.2}$)	635 MPa
Elongation after fracture (A_5)	8 %
Vickers hardness	385 HV10

Availability	Contents	REF
Wironit® extrahart	1,000 g	50060
Wironit® extrahart	250 g	50050

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1,5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

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I.W.C.

International Wironium®-Circle

- 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.

WIRONIUM® plus

I.W.C.

Premium Cobalt-chrome partial denture alloy – Partial dentures par excellence

- Enhanced version of the top-quality alloy WIRONIUM®
- Can be used universally in the field of combination work and clasp partial dentures
- Problem-free processing using the BEGO partial denture system
- Very low thermal conductivity means high wearing comfort for the patient
- Increased elongation limit and high modulus of elasticity for high resistance to possible deformations caused by masticatory forces
- The high elongation limit minimises the danger of clasp fractures
- Controlled carbon content ensures excellent laser welding properties
- Biocompatible and corrosion-resistant

6

Product details

Composition in % by mass

Co 62.5 · Cr 29.5 · Mo 5 .0 · Mn 1.5 · Si 1.0 · C · N · Ta

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.2 g/cm³
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,345; 1,390 °C
Casting temperature approx.	1,440 °C
Young's modulus	240 GPa
Proof strength ($R_{p0.2}$)	715 MPa
Elongation after fracture (A_5)	14 %
Vickers hardness	350 HV10

Availability	Contents	REF
WIRONIUM® plus (is only supplied to I.W.C. laboratories)	1,000 g	50190

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

ISO 22674

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WIRONIUM®

I.W.C.

Cobalt-chrome partial denture alloy

- Top-quality alloy, proven worldwide since 1972 – ideally suited for conventional clasp partial dentures
- Excellent flow properties – simple processing
- Particularly suitable for laser welding with Wiroweld welding wire thanks to the reduced carbon content
- Biocompatible and corrosion-resistant

6

Product details

Composition in % by mass

Co 63.0 · Cr 29.5 · Mo 5.0 · Si 1.0 · C · Mn · N

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.2 g/cm^3
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,360; 1,405 °C
Casting temperature approx.	1,440 °C
Young's modulus	230 GPa
Proof strength ($R_{p0.2}$)	680 MPa
Elongation after fracture (A_5)	15 %
Vickers hardness	345 HV10

Availability	Contents	REF
WIRONIUM® (is only supplied to I.W.C. laboratories)	1,000 g	50065

Accessories

Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

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WIRONIUM® extrahart

I.W.C.

Cobalt-chrome partial denture alloy

- Ideal when an alloy with higher strength is required
- Very slender designs possible – for high patient comfort
- Reduced carbon content – particularly well suited for laser welding
- Biocompatible and corrosion-resistant

Product details

Composition in % by mass

Co 61.0 · Cr 30.0 · Mo 5.0 · Mn 2.0 · Si 1.0 · C · N

Alloy characteristics	Standard values
Type (ISO 22674)	5
Density	8.2 g/cm^3
Preheating temperature	950–1,050 °C
Solidus; liquidus temperature	1,360; 1,395 °C
Casting temperature approx.	1,450 °C
Young's modulus	230 GPa
Proof strength ($R_{p0.2}$)	735 MPa
Elongation after fracture (A_5)	15 %
Vickers hardness	345 HV10

Availability	Contents	REF
WIRONIUM® extrahart (is only supplied to I.W.C. laboratories)	1,000 g	50175

Accessories		REF
Wiroweld CoCr laser wire, carbon-free, Ø 0.35 mm	2 m – 1.5 g	50003
Wiroweld CoCr laser wire, carbon-free, Ø 0.5 mm	1.5 m – 2 g	50005
Cobalt-chrome solder	4 g	52520

ISO 22674

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Talmi

Dental training metal

- Ideal golden-yellow training metal – for inexpensive training or demonstrations
- The mechanical values and working characteristics are comparable with those of a type 2 gold-casting alloy
- Easy to process – Talmi can be melted and cast using any casting machine
- Talmi is not intended for medical use and must not be used in the oral cavity

Product details

Composition in % by mass
Cu 87.0 · Sn 12.0 · Co 1.0

Alloy characteristics	Standard values
Density	8.8 g/cm³
Preheating temperature	700 °C
Solidus; liquidus temperature	815; 985 °C
Casting temperature approx.	1,200 °C
Young's modulus	95 GPa
Proof strength ($R_{p0.2}$)	250 MPa
Elongation after fracture (A_5)	50 %
Vickers hardness	120 HV5

Availability	Contents	REF
Talmi	1 g	50220

Accessories		REF
Talmi solder 700 °C	3 g	50221

Wironit®

Clasp wire

- Springy steel designed for acrylic work and regulations

Product details

Composition in % by mass

Fe 68.0 · Cr 17.0 · Ni 11.5 · Mo 2.0 · Mn 1.0 · N · Si

Availability	Contents	REF
round, Ø 0.6 mm	40 m roll	48220
round, Ø 0.7 mm	30 m roll	48250
round, Ø 0.8 mm	20 m roll	48280
round, Ø 0.9 mm	10 m roll	48310
round, Ø 1.0 mm	10 m roll	48340
half-round, 0.65 × 1.30 mm	10 m roll	48430
half-round, 0.75 × 1.50 mm	10 m roll	48460

WiroFix

Friction element for the combination technique

Product details

Availability	Contents	REF
BEGO WiroFix, 1 set consisting of: • ceramic spacers, white • friction elements, yellow • friction elements, pink	6 pieces each	52831
WiroFix friction element, medium, pink, height: 3 mm, Ø 1 mm	6 pieces	52832
WiroFix friction element, strong, violett, height: 3 mm, Ø 1 mm	6 pieces	52833
WiroFix ceramic spacer, white	6 pieces	52834
WiroFix accessories, standard, yellow, height: 3 mm, Ø 1 mm	6 pieces	52835

Precision Milling and Partial Denture Constructions

Modern design – Efficient production

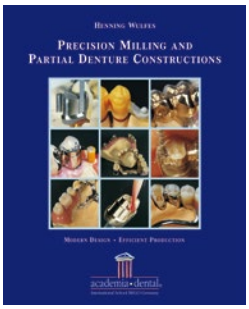
- Guidelines for dental laboratories and surgeries specialising in prosthetics
- Ideal preparation for examination as ‘Master’ technician
- Practice-oriented guide and reference work
- Restorations using partial dentures with telescopic constructions and clasp-retained tooth replacement
- Systematic planning and design
- Efficient dental fabrication
- Various stages of restoration with partial denture techniques
- Clear step-by-step description of key sequences
- Historical overview
- Appendix dealing with material properties
- Many practical tips for users
- Processing errors and their consequences
- Author: Henning Wulfes

Product details

Realization

280 pages · 210 × 260 mm · incl. images · approx. 1.000 color illustrations · hardcover

Availability	REF
German	sold out
English	88895
Russian	88896



Telescopic Double Crowns

Combined denture with double crowns and partial denture

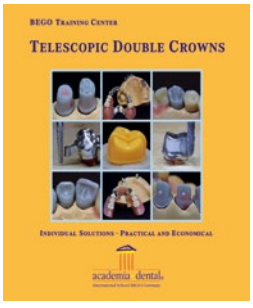
- Guidelines for non-precious double crown technique for dental laboratories and surgeries specialising in prosthetics
- Ideal for systematic familiarisation with the subject of non-precious double crowns
- Practice-oriented guide and reference work
- Detailed information about planning and designing a double crown-anchored denture
- Information about efficient dental fabrication
- Clear step-by-step description of key sequences
- Information about common sources of error
- Many practical tips for users
- Team of authors from BEGO TRAINING CENTER and academia dental

Product details

Realization

92 pages · 210 × 260 mm · approx. 270 color illustrations · hardcover

Availability	REF
German	sold out
English	88876
Russian	88875



Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

7

CAD/CAM Materials

Thermoplastic milling blanks

Made of BEGO PMMA Splint E

Milling blanks made of BEGO PMMA Splint E are characterized by a thermoplastic flexibility with thermal memory effect. Due to the industrial production process the highest material homogeneity is achieved, which guarantees outstanding long-term stability. The use of CAD/CAM technology also ensures a safe process because mixing errors (e. g. by hand mixing) are eliminated. This results in a highly precise adaptation to the dental bite situation and an exceptional, tension-free comfort for the patient. Furthermore, the self-adjusting bite splint is extremely fracture-proof and has a high optical transparency.

- High and precise adaptation to the dental bite situation
- Exceptional, tension-free functional comfort for the patient by thermal memory effect
- Self-adjusting
- Extremely fracture-proof
- High optical transparency

Product details

7

Chemical composition	
Poly(m)ethylacrylate and cross-linking copolymers of methacrylic acid	> 90 %
1.2-cyclohexane dicarboxylic acid diisononyl ester	< 10 %

Material data	
Flexural strength (23°C)	> 20 MPa
Flexural strength (37°C)	< 20 MPa
Density	approx. 1.1 to 1.2 g/cm³
Color	transparent

Availability	Contents	REF
Milling blank PMMA Splint E [20mm]	1 piece	71200
Milling blank PMMA Splint E [16mm]	1 piece	71201

Further information on our complete CAD/CAM portfolio can be found on www.bego.com/cad-cam-solutions/ and in our catalogue „CAD/CAM Products“ (REF 800160)
Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Mediloy® M-Co

The BEGO cobalt-chrome milling blanks

- Improved surface with further optimized cutting ability
- Type 4 alloy (according to ISO 22674)
- Biocompatible and corrosion-resistant, nickel-, cadmium and beryllium-free
- Special heat treatment makes it particularly easy to mill
- Reduced hardness of 290 HV10 enables easier polishing
- Homogeneous structure – no cavities or porosities
- Available without shoulder: heights 10, 12, 14, 18 mm
- With shoulder: heights 10, 12, 14, 16, 18, 20, 22, 25 mm
- Scope of application:
  - Metal-ceramic crowns and bridges
  - Implant prosthetics

Product details

Composition in % by mass
Co 63.8 · Cr 24.8 · W 5.3 · Mo 5.1 · Si 1.0

Alloy characteristics	
Type (accord. to ISO 22674)	4
Density	8.6 g/cm³
Young's modulus	235 GPa
Proof strength ($R_{p\,0.2}$)	375 MPa
Elongation after fracture (A_5)	27 %
Vickers hardness	290 HV10
Coefficient of thermal expansion (CTE) 25 – 500 °C, 10^{-6} K^{-1}	14.4

Availability	Contents	REF
Mediloy® M-Co 10 mm	1 piece	50940
Mediloy® M-Co 12 mm with shoulder	1 piece	50951
Mediloy® M-Co 14 mm with shoulder	1 piece	50952
Mediloy® M-Co 16 mm with shoulder	1 piece	50953
Mediloy® M-Co 18 mm with shoulder	1 piece	50954
Mediloy® M-Co 20 mm with shoulder	1 piece	50955
Mediloy® M-Co 22 mm with shoulder	1 piece	50956
Mediloy® M-Co 25 mm with shoulder	1 piece	50957

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Mediloy® M-Ti4

The BEGO pure titanium milling blanks

- Improved surface with further optimized cutting ability
- Biocompatible and corrosion-resistant, nickel-, cadmium and beryllium-free
- Low hardness of 225 HV10 allows very easy polishing
- Available with shoulder: heights 12, 14, 16, 18, 20, 22, 25 mm
- Scope of application:
  - Metal-ceramic crowns and bridges
  - Abutments
  - Bars

Product details

Composition in % by mass
Ti 100.0

Alloy characteristics	
Type (accord. to ISO 22674)	4
Density	4.5 g/cm³
Young's modulus	125 GPa
Proof strength ($R_{p\,0.2}$)	635 MPa
Elongation after fracture (A_5)	20 %
Vickers hardness	225 HV10
Coefficient of thermal expansion (CTE) 25 – 500 °C, 10^{-6} K^{-1}	9.1

Availability	Contents	REF
Mediloy® M-Ti4 12 mm with shoulder	1 piece	50571
Mediloy® M-Ti4 14 mm with shoulder	1 piece	50572
Mediloy® M-Ti4 16 mm with shoulder	1 piece	50573
Mediloy® M-Ti4 18 mm with shoulder	1 piece	50574
Mediloy® M-Ti4 20 mm with shoulder	1 piece	50575
Mediloy® M-Ti4 22 mm with shoulder	1 piece	50576
Mediloy® M-Ti4 25 mm with shoulder	1 piece	50577

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Mediloy® M-Ti5

The BEGO titanium milling blanks

- Improved surface with further optimized cutting ability
  Biocompatible and corrosion-resistant, nickel-, cadmium and beryllium-free
- Larger spans possible due to very high strength
- Available with shoulder: heights 12, 14, 16, 18, 20, 22, 25 mm

- Scope of application:
  - Metal-ceramic crowns and bridges
  - Abutments
  - Bars

Product details

Composition in % by mass

Ti 90.0 · Al 6.0 · V 4.0

Alloy characteristics	
Type (accord. to ISO 22674)	4
Density	4.3 g/cm³
Young's modulus	125/120 GPa
Proof strength ($R_{p\,0.2}$)	875/905 MPa
Elongation after fracture (A_5)	16 %
Vickers hardness	285/320 HV10
Coefficient of thermal expansion (CTE) 25 – 500 °C, 10^{-6} K^{-1}	10.3/10.0

Availability	**Contents**	**REF**
Mediloy® M-Ti5 12 mm with shoulder	1 piece	50591
Mediloy® M-Ti5 14 mm with shoulder	1 piece	50592
Mediloy® M-Ti5 16 mm with shoulder	1 piece	50593
Mediloy® M-Ti5 18 mm with shoulder	1 piece	50594
Mediloy® M-Ti5 20 mm with shoulder	1 piece	50595
Mediloy® M-Ti5 22 mm with shoulder	1 piece	50596
Mediloy® M-Ti5 25 mm with shoulder	1 piece	50597

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8

Preheating and Casting

With integrated power cooling

Fornax® T

The compact casting machine with induction melting device and integrated power cooling

Fornax® T is equally suitable for both non-precious and precious metal alloys, as well as partial denture casting. With two adjustable starting speeds, optimum filling is guaranteed for every cast object

- Benchtop casting machine with high-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- The user-friendly operating panel provides information on all parameters and gives quick and easy access to all major functions
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated adjustable infrared sensor for safe and gentle melting of all standard precious metal and non-precious metal alloys (excluding titanium) at a casting temperature of up to 1,550°C
- High output reserves with low power consumption of just 16 amps
- Very quick adjustment to different casting mould sizes by means of a simple mechanism ensures fast working
- Compact dimensions and design give the new Fornax® T a very small footprint

Product details

Technical data	
Height	455 mm
Height with cover open	910 mm
Width	710 mm mit Hebel
Depth	615 mm
Depth with cover open	675 mm
Rated voltage	230 VAC, 50/60 Hz
Special voltage	200–240 VAC, 50/60 HZ
Current consumption	approx. 16 A
Heating power	3.6 kVA, 65 kHz
Weight	80 kg

Scope of delivery	Contents	REF
Fornax® T 230 VAC, 50/60 Hz	1 piece	26480
Ceramic crucible	6 pieces	52483
Graphite inserts	6 pieces	52454
Ceramic inserts for ceramic melting crucible	6 pieces	52455
Base socket mould former, sizes 3, 6 and 9	1 piece each	–

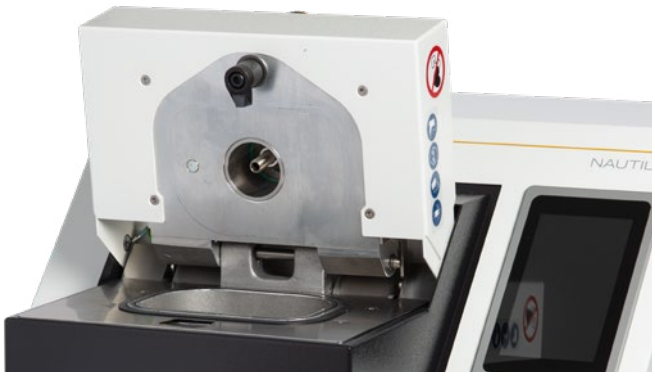
Accessories		
Base socket mould formers size 3	4 pieces	52627
Base socket mould formers size 6	4 pieces	52628
Base socket mould formers size 9	4 pieces	52629
Mould tong, 64 cm long	1 piece	11599
Mould tong, 55 cm long	1 piece	39754
Fornax® service box for 4 crucibles and 1 set of tongs	1 piece	25337
Wiromelt (non-precious)	80 g tin	52526
Auromelt HF	65 g dispenser	52525

Nautilus® CC plus

The compact, benchtop vacuum pressure-casting machine with integrated power cooling, induction heating and automated casting process

Nautilus® CC is equally suitable for both non-precious and precious metal alloys, as well as partial denture casting. The integrated fully automatic temperature measuring system uses multi-channel temperature measurement to determine the exact temperature of the melt and fully automatically triggers the casting process.

- New: Network connection via LAN or W-LAN enables access to the integrated casting log archives (up to 1,000 casting logs)
- New: The connection via the service portal* my.Bego.com enables direct remote diagnosis of the device
- New: Large 7“ touch display with intuitive menu navigation for convenient and easy operation
- Casting point recognition ensures that the cast objects are filled at the temperature recommended by the alloy manufacturer
- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated cooling saves water and helps to protect the environment
- Suitable for all commercially available precious metal and non-precious alloys (excluding titanium)
- Compact dimensions and design give the Nautilus® CC plus a very small footprint
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs



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.

* BEGO customers have access to all user-specific relevant information, services and benefits in the service portal “my.BEGO.com”.
Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Product details

Technical data	
Height	420 mm
Height with optical waveguide	650 mm
Width	600 mm
Depth	670 mm
Rated voltage	230 VAC, 50/60 Hz
Power at rated voltage of 230 V	16 A
Compressed air connection (Connection thread 1/4“)	mind. 5 bar (0.5 [MPa])
Air consumtion	approx. 100 l/min
Weight	approx. 64 kg

Scope of delivery	Contents	REF
Nautilus® CC plus, 230 VAC, 50/60 Hz	1 piece	26475
Ceramic crucibles (each made of 2 halves)	4 pieces	52488
Plastic handles for ceramic crucibles	2 pieces	52436
Ceramic handles for ceramic crucibles	2 pieces	52467
Glass carbon cylinder	2 pieces each	52473
Graphite ingot	1 piece each	52468
Forceps	1 piece	30002
Mould holder plate, ceramic	1 piece	30259
Mould holder (ceramic) for sizes 1 and 9	1 piece	12257
Mould holder (ceramic) for sizes 3 and 6	1 piece	13362
Mould holder plate (metal grid) for partial denture (25 mm high)	1 piece	37618
Mould holder plate (metal grid) for partial denture (15 mm high)	1 piece	10073
Base socket mould formers, sizes 3, 6 and 9	1 piece each	–
Partial denture funnel former	1 piece	52068

Accessories		
Compressed air tank with wall bracket	1 piece	16260
Printer for casting logs (for previous version of unit)	1 piece	16267
Mould tongs, 55 cm long	1 piece	39754
Base socket mould formers, size 3	4 pieces	52627
Base socket mould formers, size 6	4 pieces	52628
Base socket mould formers, size 9	4 pieces	52629
Partial denture funnel formers	10 pieces	52066
Wiromelt melting power (non-precious)	80 g tin	52526
Auromelt HF melting powder	65 g dispenser	52525

Compressed air tank

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Nautilus® T

The compact, benchtop vacuum pressure-casting machine with integrated power cooling, induction heating and camera system

Nautilus® T is equally suitable for both non-precious and precious metal alloys, as well as partial denture casting. A new integrated camera system supports the dental technician by providing visual casting point recognition.

- New: Network connection via LAN or W-LAN enables access to the integrated casting log archives
- New: The connection via the service portal* my.Bego.com enables direct remote diagnosis of the device
- New: Large 7“ touch display with intuitive menu navigation for convenient and easy operation
- High-performance induction heating guarantees short melting cycles, minimises oxidation and thus facilitates subsequent finishing
- Integrated power cooling provides for over 50 casts in a row, even with high ambient temperatures with moulds made of phosphate-bonded investment materials
- Integrated cooling saves water and helps to protect the environment
- Suitable for all commercially available precious metal and non-precious alloys (excluding titanium)
- Compact dimensions and design give the Nautilus® T a very small footprint
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs

New
Integrated camera system supports the dental technician with the visual casting time recognition.

* BEGO customers have access to all user-specific relevant information, services and benefits in the service portal “my.BEGO.com”.
Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Product details

Technical data	
Height	420 mm
Height with cover open	520 mm
Width	600 mm
Depth	670 mm
Rated voltage	230 VAC, 50/60 Hz
Power at rated voltage of 230 VAC	16 A
Compressed air connection (Connection thread 1/4“)	mind. 5 bar (0.5 [MPa])
Air consumption	approx. 100 l/min
Weight	approx. 63 kg

Scope of delivery	Contents	REF
Nautilus® T, 230 VAC, 50/60 Hz	1 piece	26470
Ceramic crucibles (each made of 2 halves)	4 pieces	52488
Plastic handles for ceramic crucibles	2 pieces	52436
Ceramic handles for ceramic crucibles	2 pieces	52467
Graphite ingots	2 pieces each	52468
Glass carbon cylinder	1 piece each	52473
Forceps	1 piece	30002
Mould holder plate, ceramic	1 piece	30259
Mould holder (ceramic) for sizes 1 and 9	1 piece	12257
Mould holder (ceramic) for sizes 3 and 6	1 piece	13362
Mould holder plate (metal grid) for partial denture (25 mm high)	1 piece	37618
Mould holder plate (metal grid) for partial denture (15 mm high)	1 piece	10073
Base socket mould formers, sizes 3, 6 and 9	1 piece each	–
Partial denture funnel former	1 piece	52068

Accessories		
Compressed air tank with wall bracket	1 piece	16260
Mould tongs, 55 cm long	1 piece	39754
Base socket mould formers, size 3	4 pieces	52627
Base socket mould formers, size 6	4 pieces	52628
Base socket mould formers, size 9	4 pieces	52629
Partial denture funnel formers	10 pieces	52066
Wiromelt melting power (non-precious)	80 g tin	52526
Auromelt HF melting powder	65 g dispenser	52525

Compressed air tank

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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
- 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 1,100 °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 long service life
- Maximum capacity of the mould chamber:
  - 100 MP: 9 × size 3 mould
    4 × BEGO large mould former, blue
  - 200 MP: 32 × size 3 mould
    9 × BEGO large mould former, blue
- Flexible programming with 4 programmable holding stages per programme, infinitely variable selection of the heat rate from 1–9 °C/Min and 1 speed programme reliably covers all applications in CrCo and crown and bridge work

Product details

Technical data	Miditherm 100 MP	Miditherm 200 MP	Regulus
Height	480 mm	600 mm	600 mm
Width	350 mm	470 mm	160 mm
Depth	420 mm	550 mm	140 mm
Mould chamber Height	100 mm	110 mm	
Mould chamber Width	150 mm	200 mm	
Mould chamber Depth	170 mm	250 mm	
Rated voltage	200–240 VAC, 50/60 Hz	200–240 VAC, 50/60 Hz	220–240 VAC, 50/60 Hz
Power at rated voltage of 230 VAC	1.600 VA	2.700 VA	
Temperature	max. 1.150 °C	max. 1.150 °C	
Weight	approx. 28 kg	approx. 56 kg	3.4 kg

Availability	Contents	REF
Miditherm 100 MP with ceramic base plate	1 piece	26150
Miditherm 200 MP with ceramic base plate	1 piece	26155

Accessories		
Ceramic base plate for Miditherm 100	1 piece	34954
Ceramic base plate for Miditherm 200	1 piece	13984
Thermocouple for Miditherm 100/200	2 pieces	14087
Extraction pipe for Miditherm 100/200, short	1 piece	35544
Spare heating mould for Miditherm 100	1 piece	34956
Spare heating mould for Miditherm 200	1 piece	13985
Regulus furnace extraction system	1 piece	25750

Nautilus® ceramic crucible FC

Made from an innovative special ceramic

- The design of the Nautilus® ceramic crucible FC is protected as a three-dimensional mark
- The crucible is composed of the innovative development of a high-temperature-resistant special ceramic, which offers many advantages over conventional crucible ceramics
- The extremely homogeneous structure of the ceramic contributes to its consistently reproducible accuracy of fabrication
- Extraordinarily smooth ceramic surfaces facilitate the discharge of the melt
- The high thermal shock resistance guarantees the long useful life of the Nautilus® ceramic crucible FC

Product details

Availability	Contents	REF
Nautilus® ceramic crucible FC	4 pieces	52488

Plastic handles

for Nautilus® ceramic crucibles

Product details

Availability	Contents	REF
Plastic handles for Nautilus® ceramic melting crucibles, exclusively for use in the casting of partial denture- and non-precious alloys	2 pieces	52436

Ceramic handles

for Nautilus® ceramic crucibles

Product details

Availability	Contents	REF
Ceramic handles for Nautilus® ceramic crucibles, to be used for the casting of precious alloys	2 pieces	52467

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Graphite cylinder

for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus
- For melting of precious alloys

Product details

Availability	Contents	REF
Graphite cylinder	6 pieces	52468

Glass carbon cylinder

for Nautilus® ceramic crucibles

- For Nautilus® T/CC/CC plus
- For melting precious-metal alloys, including those with a high palladium content

Product details

Availability	Contents	REF
Glass carbon cylinder	4 pieces	52473

Glass carbon insert

for Fornax® ceramic crucibles

- For Fornax® T
- For melting precious-metal alloys, including those with a high palladium content

NEW!

Product details

Availability	Contents	REF
Glass carbon insert	4 pieces	54883

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

Fornax® ceramic crucibles FC

Made from special ceramic

- With the BEGO ceramic crucible for Fornax®, BEGO is setting the most exacting standards.
- An innovative method of manufacture for high-temperature-resistant crucibles, developed in scientific collaboration, permits an extremely homogeneous material structure which facilitates a consistently reproducible accuracy of fabrication
- An extraordinarily smooth surface on the inside of the ceramic crucible facilitates the discharge of the melt
- The high thermal shock resistance of the new material guarantees a long useful life
- The new material is even resilient enough to withstand aggressive alloys

Product details

Availability	Contents	REF
Fornax® ceramic crucible	6 pieces	52483

Graphite inserts

for Fornax® ceramic crucibles

- For melting of precious-metal alloys

Product details

Availability	Contents	REF
Graphite inserts	6 pieces	52454

Ceramic inserts

for Fornax® ceramic melting crucibles

- For melting of precious-metal alloys with a high palladium content

Product details

Availability	Contents	REF
Ceramic inserts	6 pieces	52455

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Lolipot

Crucible engobe for Fornax®- and Nautilus® ceramic crucibles

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

Product details

Availability	Contents	REF
Lolipot (pressure pulverizer)	100 ml bottle	52477

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

Product details

Availability	Contents	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	6 pieces	52426
Melting crucible, deep trough, for precious-metal alloys that can be used with Fundor, Fundor T, Castor and Pollux with double centrifugal arm	6 pieces	52425

Auromelt HF

Melting powder

- Suitable for all melting processes of precious-metal and non-precious alloys
- Prevents the formation of oxide, even at low melting temperatures, and facilitates recognition of the correct moment for casting

Product details

Availability	Contents	REF
Auromelt HF (dispenser)	65 g tin	52525

Wiromelt

Melting powder

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

Product details

Availability	Contents	REF
Wiromelt (dispenser)	80 g tin	52526

9

Blasting

Korox®

Special corundum blasting material made from 99.6 % aluminium oxide

- Alpha corundum with high hardness
- It remains sharp-edged until completely worn
- Efficacy and ease of use are reflected in its impressive compatibility with the BEGO recycling sandblasters such as Duostar or Protempomatic
- When used in pencil sandblasters, Korox® 250 not only removes investment material residues and oxides efficiently, but is also ideal for optimal surface conditioning of non-precious alloys prior to ceramic firing
- The high purity of Korox means there is no risk of contamination of the alloy surface
- Korox® complies with the regulations of occupational safety institutes

Product details

Availability	Contents	REF
Korox® 250 (250 µm)	8 kg canister	46014
Korox® 250 (250 µm) large pack	20 kg tub	54300
Korox® 110 (110 µm)	8 kg canister	46044
Korox® 110 (110 µm) large pack	20 kg tub	54299
Korox® 50 (50 µm)	8 kg canister	46062
Korox® 50 (50 µm) large pack	20 kg tub	54298
Korox® 25 (25 µm)	8 kg canister	46036

Perlablast®

Blasting material for blast polishing

- It consists of tiny, lead-free beads of soda glass which produce an even silky lustre
- The controlled size and shape of the beads make for a high level of usability and therefore efficient, economical working
- No metal is lost because the surface is compressed and not abraded
- No finishing is necessary on the surfaces which are not intended for polishing
- It can be used for all standard crown and bridge alloys to give the occlusal surfaces a matt finish

Product details

Availability	Contents	REF
Perlablast® (125 µm)	8 kg canister	46043
Perlablast® (125 µm) large pack	20 kg tub	54301
Perlablast® micro (50 µm)	8 kg canister	46092
Perlablast® micro (50 µm) large pack	20 kg tub	54302

10

Surface Treatment

Triton SLA

Wet and dry steam cleaner

Environmentally sound, intensive and versatile

- High-performance unit with “wet” and “dry steam” setting
- Fixed water connection with interconnected BEGO full demineralising cartridge effectively minimises calcification of the unit
- Steam pressure of approx. 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 flow switch cuts off the water supply immediately should leakages occur and prevents water damage in the laboratory

Product details

Technical data	
Height	540 mm
Width	380 mm
Depth	280 mm
Rated voltage	200–240 VAC, 50/60 Hz
Special voltage	100–120 VAC, 50/60 Hz
Power at rated voltage of 230 VAC	1.5 kW
Boiler temperature at 3 bar	133 °C
Steam pressure	3±0.2 bar (approx. 0.3 [MPa])
Boiler capacity	2.9 l
Water connection	3/4", 4–6 bar
Weight	13 kg

Availability	Contents	REF
Triton SLA with full demineralisation cartridge, ring spanner incl.	1 piece	26005

Accessories		
Full demineralisation cartridge with 2 inserts and ring spanner	1 piece	37600
Inserts for cartridge	2 pieces	37602
Calex descaler for steam cleaner	1 l bottle	52125
Durox replacement one-way resin	6 l tub	52121
Ring spanner	1 piece	11044

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 × 0.2 mm SecuDisc cuts precious alloys very economically

Product details

Availability	Rotational speed min^{-1}	Contents	REF
1 BEGO BEGO Separating discs Ø 25 × 0.5 mm	15,000–20,000	100 pieces	43040
BEGO BEGO Separating discs Ø 35 × 0.8 mm	10,000–20,000	100 pieces	43020
2 For ceramics: Ø 22 × 0.3 mm	15,000–20,000	100 pieces	43060
SecuDisc BEGO Separating discs Ø 22 × 0.2 mm	20,000–40,000	20 pieces	54810
SecuDisc BEGO Separating discs Ø 25 × 0.3 mm	20,000–40,000	20 pieces	54809
SecuDisc BEGO Separating discs Ø 38 × 0.5 mm	20,000–40,000	20 pieces	54808

Rough grinding stones

- Ceramically bonded, for rough grinding large areas

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Rough grinding stones, Shank size 2.35 mm	10,000–15,000	12 pieces	43110

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 min^{-1}
- The figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Shank size 2.35 mm			
H1 Ø head 6.6 mm	30,000–50,000	100 pieces	43160
H2 Ø head 5.1 mm	30,000–50,000	100 pieces	43180
H3 Ø head 3.5 mm	30,000–50,000	100 pieces	43200
H7 Ø head 5 mm	30,000–50,000	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

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Perforated discs Ø 22 × 3 mm	10,000–15,000	100 pieces	43100
Perforated discs Ø 34 × 3 mm	approx. 10,000	100 pieces	43080

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

Product details

Availability	Rotational speed min^{-1}	Contents	REF
WiroFlex Ø 22 × 1.2 mm	approx. 6,000–10,000	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

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Rubber polishing wheels, Ø 22 × 3.5 mm	6,000–10,000		
• green		100 pieces	43310
• black		100 pieces	43330
Rubber polishing tips, Ø 6.5 × 24 mm	6,000–10,000		
• green		100 pieces	43350
• black		100 pieces	43370
Knife-edge rubber polishing wheels, Ø 15.5 mm	6,000–10,000		
• green		100 pieces	43390
• black		100 pieces	43410

Polishing point holder mandrels

- Particularly tough polishing point holders for all areas of dental laboratory work
- Shaft diameter 2.35 mm

Product details

Availability	Rotational speed min^{-1}	Contents	REF
Polishing tip holders, cylindrical	max. 80,000 or according as to the used polishers	12 pieces	52300
Mandrels	max. 80,000 or according as to the used polishers/separating disc	12 pieces	52290

Diamond grinding stones

Sintered

- Diamond rotary instruments have a high cutting capacity and considerably longer service life compared with ceramic bonded fine grit stones
- he figures of the ISO No. denotes the largest diameter of the active section in 1/10 mm, 2.35 mm shaft diameter

Product details

Availability	Rotational speed min^{-1}	REF
Medium grain:		
1 Ø head 8 mm	approx. 18,000	43491
2 Ø head 5 mm	approx. 23,000	43492
3 Ø head 5 mm	approx. 23,000	43494
4 Ø head 2.35 mm	approx. 30,000	43495
5 Ø head 3.7 mm	approx. 27,000	43496
6 Ø head 5 mm	approx. 23,000	43497
Coarse grain:		
7 Ø head 5 mm	approx. 23,000	43498

Milling set

Standard milling set for combined restorations

- The milling set includes the most important cutter geometries for creating telescopic crowns, bars and stress distribution arms
- For recommended rotational speeds, please see table

Product details

Availability	Rotational speed min^{-1}	REF
Milling set with 2.35 mm shaft diameter consists of:		43470
1 Carbide wax cutter, cylindrical 023	approx. 3,000	
2 Carbide parallel cutter, coarse 023	approx. 6,000 Non-Precious-Alloys	
3 Carbide parallel cutter, fine 023	approx. 6,000 Non-Precious-Alloys	
4 Carbide spiral drill, 010	approx. 3,000 (Wax)	
5 Carbide groove cutter, coarse 010	approx. 3,000	
6 Carbide groove cutter 012	approx. 3,000 Non-Precious-Alloys	
7 Stainless steel parallel pin		
8 Carbide shoulder cutter	approx. 3,000	

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
- Polishing paste blue is a universal polishing paste, it creates even surfaces and ensures high shining
- Polishing paste white is a high shine polishing paste, made from finest polishing compounds

Product details

Availability	Contents	REF
Rough and final polish, for cobalt-chrome, blue, approx. 1.5 kg	3 pieces	52310
Final polish for metal and acrylic, white, approx. 1.5 kg	3 pieces	52311

Steribim® super

High-performance polishing compound for acrylic dentures

- Formaldehyde-free, biodegradable, toxicologically safe
- Kind to the skin
- No unpleasant odour
- Quartz-free – no danger of silicosis
- Excellent polishing performance down to the last gram – low residual roughness
- Smooth consistency

Product details

Availability	Contents	REF
Steribim® super	10 kg tub	54283

Diapol Diamond polishing compound

for special applications

- Improved Diapol formulation for optimal polishing results
- Easy to apply, excellent distribution over the surface combined with minimal consumption
- Diapol polishes even the hardest alloys and ceramics and is ideal for precious metals
- Ideal for polishing ceramic abutments or if a glaze firing is no longer possible
- Economical application: approx. 3 mm of compound is sufficient for a 3-unit bridge

Product details

Availability	Contents	REF
Diapol (syringe)	5 g syringe	52305

Wirolyt

Electrolytic 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

Product details

Availability	Contents	REF
Wirolyt	1 l bottle	52460

Eltropol 300

Polishing unit

- Automatic recommendation of polishing time for different sizes of framework prevents unnecessary reduction of material
- Innovative heating concept quickly brings the unit up to operating temperature
- Major time saving thanks to 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
- Uniform movement of the polishing bath ensures outstanding polishing results
- Supplementary cathode for frameworks ensures uniform polishing, even with frameworks which have a deep palate
- The automatic current stabilisation also supports uniform polishing

Product details

Technical data	
Height	452 mm
Width	400 mm
Depth	275 mm
Rated voltage	100–240 VAC, 50/60 Hz
Max. power consuption	200 VA
Polishing current	max. 10 A
Capacity of tub/bowl	2 liter
Weight	10 kg

Availability	Contents	REF
Eltropol 300 110/240 VAC, with supplementary cathode, clamps with holder, model hook	1 piece	26310

Accessories		
Supplementary cathode, straight	1 piece	17003
Supplementary cathode Eltropol 300	1 set	17000
Spare clamps with holder	2 pieces	36445
Spare clamps	6 pieces	14651
Model hook + shrinking hose	1 piece	17001
Wirolyt polishing liquid	1 l bottle	52460

11

Jointing Technology / Soldering

LaserStar T plus

The compact power laser from BEGO

- Compact and powerful, with user-friendly features
- Precision welding ensured by controllable welding energy with pulse time, charging voltage and focus adjustment
- Ergonomic design and positioning of the controls directly in the field of vision for convenient and fatigue-free working
- Simple operation with a large color touch display and intuitive menu navigation
- Pulse shaping for high-strength stress- and crack-free joints
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs
- The external Ventus extraction unit efficiently removes welding fumes from the welding chamber, ensuring maximum safety at the workplace

Ventus

Product details LaserStar T plus

Technical data	
Laser type	Nd: YAG
Wavelength	1,064 nm
Pulse energy	60 joules
Pulse length	0.3–50 ms
Rated power	60 W
Pulse peak output	max. 8 KW
Spot diameter	0.2 mm to 2.6 mm
Pulse frequency	Single pulse, 1–50 Hz
Pulse shapes	4 fixed, 12 variable available
Microscope	4H Jena with TrueView function 16x (visible magnification)
Aiming device	Reticle in microscope
Welding parameters	can be set both inside and outside the welding chamber
Inert gas nozzles for argon	1 flexible, 1 fixed
Illumination of welding chamber	LED ring light, adjustable
Welding fume extraction	Integrated connection for an external extraction system, such as BEGO Ventus
Water/air cooling	with ion filter, integrated
Power supply	230 VAC/50 Hz, 1 phase, 13 A or 110 VAC/60 Hz; 1 phase, 15 A
Weight	approx. 60 kg
Height	505 mm
Width	540 mm
Depth	757 mm

Availability	Contents	REF
LaserStar T plus	1 piece	26405

Accessories		
Hand rests, height-adjustable	2 pieces	15650
Pressure regulator for argon inert gas	1 piece	13380
Lifting table	1 piece	15649

Product details Ventus Filter system

Technical data	
Line voltage	200–240 VAC, 50/60 Hz
Rated power	140 W
Flow rate	59–120 m^3/h
Sound level	47–53 dB(A)
Dimensions (H × W × D)	512 × 320 × 310 mm
Weight	21 kg

Availability	Contents	REF
Ventus filter system for LaserStar T plus	1 piece	26440

Additional materials

for laser welding

Product details

Availability	Composition in % by mass	Thickness/mm	Quantity	REF
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.35	2 m – 1.5 g	50003
Wiroweld (CoCrMo, C-free)	Co 65.0 · Cr 28.0 · Mo 6.0 · Mn · Si	0.5	1.5 m – 2 g	50005
Wiroweld NC (NiCrMo, C-free)	Ni 60.0 · Cr 22.0 · Mo 9.0 · Fe 4.0 · Nb 3.6 · Al · Co · Cu · Mn · Si · Ta · Ti	0.35	5.5 m – 4 g	50006
Titan Grade 2 wire	Ti 100.0	0.35	5 m – 2 g	50008
AuroLloyd® KF wire	Au 55.0 · Ag 29.3 · Pd 10.0 · In 3.5 · Zn 1.2 · Sn 1.0 · Re · Ru	0.35	5 g	61153
BegoCer® G wire	Au 51.5 · Pd 38.4 · In 8.7 · Ga 1.3 · Ru	0.35	5 g	61164
BegoPal® 300 wire	Pd 75.2 · In 6.3 · Ag 6.2 · Au 6.0 · Ga 6.0 · Re · Ru	0.35	5 g	61165
BegoStar® ECO wire	Pd 51.9 · Ag 23.0 · Au 15.0 · In 6.0 · Sn 4.0 · Ru	0.35	5 g	61171
Bio PlatinLloyd® wire	Au 74.9 · Ag 14.9 · Pt 7.8 · Zn 2.2 · Mg · Mn · Rh	0.35	5 g	61161
Bio PontoStar® wire	Au 86.7 · Pt 10.7 · Zn 1.5 · In · Mn · Rh · Ta	0.35	5 g	61157
Bio PontoStar® XL wire	Au 86.0 · Pt 11.5 · Zn 1.6 · Fe · In · Rh	0.35	5 g	61167
ECO d'OR wire	Ag 40.5 · Au 38.1 · Pd 13.0 · In 8.0 · Mn · Ta	0.35	5 g	61170
PlatinLloyd® 100 wire	Au 72.0 · Ag 13.7 · Cu 9.8 · Pt 3.5 · Ir · Zn	0.35	5 g	61152
PlatinLloyd® KF wire	Au 72.8 · Ag 16.1 · Pd 5.7 · Zn 3.0 · Pt 2.0 · Ir · Mn · Rh	0.35	5 g	61158
PlatinLloyd® M wire	Au 70.0 · Ag 11.7 · Cu 10.0 · Pt 5.0 · Zn 1.9 · Pd 1.0 · In · Re	0.35	5 g	61155
PontoLloyd® P wire	Au 77.5 · Pt 9.9 · Pd 8.9 · In 1.4 · Ag 1.0 · Cu · Fe · Ir · Sn	0.35	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	5 g	61172
PontoStar® G wire	Au 85.5 · Pt 11.4 · In 2.3 · Fe · Rh	0.35	5 g	61150

ISO 28319

Thermostop

Heat protection paste

- Contains no asbestos
- Is used to cover the acrylic base when soldering has to be carried out close to it
- The acrylic parts do not have to be removed even when soldering is difficult

Product details

Availability	Contents	REF
Thermostop	140 g tin	52540

Minoxyd

Flux

- For soldering precious- and non-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

Product details

Availability	Contents	REF
Minoxyd	80 g bottle	52530

High-quality dental solders

Perfectly coordinated with BEGO alloys

- The special composition of the BEGO solders guarantees an easy flowability for the finest joining work
- High strength ensures protection against fractures at the joints
- Reliable soldering process and outstanding adhesion because the working temperature is geared to the respective alloy

Solders

			Composition % by mass (x = < 1 %)									
Solders	REF	BEGO color code	Au	Pt	Pd	Ag	Cu	Sn	Zn	In	Other (< 1 %)	Melting range °C
BEGO Gold solder I	61017	2	72.0	1.9	1.0	8.0	7.0	–	10.0	–	Re	740, 790
BEGO Gold solder II	61043	3	73.0	1.9	–	10.0	3.0	–	12.0	–	Re	700, 730
BegoStar® solder	61081	8	55.0	–	10.0	34.0	–	–	–	1.0	–	1070, 1100
Bio PlatinLloyd® solder before firing	61108	3	90.7	2.0	–	–	–	–	7.2	–	Ir	820, 860
Bio PlatinLloyd® solder after firing	61109	6	68.5	1.6	–	13.8	–	–	16.0	–	Ir	680, 700
PontoLloyd® solder	61074	7	75.8	–	5.9	17.0	x	x	–	x	Fe · Ru	1030, 1085
PontoRex® solder before firing	61038	2	76.0	2.9	–	10.0	6.0	–	5.0	–	Ir	860, 880
PontoRex® solder after firing	61039	2	72.5	x	–	10.0	3.0	–	12.0	2.0	Ir	670, 700
PontoStar® G solder	61045	2	64.0	x	–	34.8	–	–	–	x	Rh	1000, 1015

ISO 9333

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Wirobond® solder

Soldering rods for Wirobond® alloys

Product details

Composition in % by mass

Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C

Characteristics	REF
Solidus, liquidus temperature 1125, 1195 °C	
Flux	52530

Availability	Contents	REF
Wirobond® solder (triangular) ▲	4 g	52622

ISO 9333

Wiron® solder

Soldering rods for all BEGO nickel-chrome alloys

Product details

Composition in % by mass

Ni 66.0 · Cr 19.0 · Mo 5.5 · Fe 5.0 · Si 3.5 · B

Characteristics	REF
Solidus, liquidus temperature 1140, 1200 °C	
Flux	52530

Availability	Contents	REF
Wiron® solder (round) ●	4 g	52625

ISO 9333

Cobalt-chrome solder

Soldering rods for all cobalt-chrome partial denture alloys

Product details

Composition in % by mass

Co 61.0 · Cr 28.5 · Si 4.2 · Mo 3.1 · B 1.5 · Fe 1.3 · C

Characteristics	REF
Solidus, liquidus temperature 1125, 1195 °C	
Flux	52530

Availability	Contents	REF
Cobalt-chrome solder (half-round ◗	4 g	52520

ISO 9333

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BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG
Wilhelm-Herbst-Str. 1 · 28359 Bremen, Germany
Tel. +49 421 2028-0 · Fax +49 421 2028-100
E-Mail info@bego.com · www.bego.com

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