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 of 360 (HV10) enables easier finishing and polishing
- The clasps can be activated very easily by the dentist
- Biocompatible and corrosion-resistant

Partners in Progress

BEGO

Wironit® – the proven solution for clasp partial dentures

The high mechanical properties of Wironit® are far beyond those specified in national and international standards. They ensure the high strength of the clasp partial dentures produced from them. The controlled addition of carbon also increases the modulus of elasticity and the elongation limit.

The advantages for you:
- Thanks to the high resistance, the dentures remain dimensionally stable during chewing, and guarantee reliable functioning
- The high ductile yield allows reliable and frequent activation of the clasps

Reduced Vickers hardness

Wironit® is easy to process and can be polished simply and quickly.

The advantages for you:
- Excellent aesthetics
- The dense, smooth surface minimises plaque build-up and thus protects the restoration from deposits

Clear casting point recognition

Wironit® can be cast simply and reliably in all induction-heated casting units like the Fornax® T or Nautilus® CC plus, as well as using the flame casting method.

The advantages for you:
- Reliable recognition of the casting point in all standard casting procedures
- Smooth surfaces without overheating of the molten metal

Systematic processing

Wironit® is a material which has been tried and tested since 1953 and is part of the BEGO system. The BEGO system stands for consistent, reproducible results at a high productivity level and offers everything that laboratories require for modern partial denture techniques.

The advantages for you:
- Everything from a single source
- Coordinated process steps
- Product portfolio which complements itself perfectly
- Optimum casting results

Biocompatibility

Wironit® boasts high corrosion resistance. Thanks to the use of high-purity raw materials, the alloy is free from nickel, cadmium, beryllium and lead (in accordance with ISO 22674).

The advantages for you:
- The biocompatibility has been determined by our research department and confirmed with a biocertificate
- The certificate can be downloaded free of charge from www.bego.com

Product details

Alloy characteristics	Standard values
• Alloy type (ISO 22674)	5
• Density	8.3 g/cm³
• Preheating temperature	950–1000 °C
• Solidus, liquidus temperature	1265, 1395 °C
• Casting temperature approx.	1460 °C
• Young's modulus	185 GPa
• Proof strength ($R_{p0.2}$)	615 MPa
• Ultimate strength (R_m)	895 MPa
• Elongation after fracture (A_5)	10 %
• Vickers hardness (HV10)	360 HV10

Composition in % by mass

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

Availability	Presentation	Content	REF
• Wironit®	1 Pack	1000 g	50030
• Wironit®	1 Pack	250 g	50020
Accessories			
• Wiroweld CoCr laser wire, carbon-free			
Ø 0.5 mm	1 Pack	1.5 m – 2 g	50005
Ø 0.35 mm	1 Pack	2 m – 1.5 g	50003
• Wirobond® soldering rods	1 Pack	4 g	52622

ISO 22674

Complementary products

Duplicating material	REF
• Castogel®, 6 kg tub	52052
• Castogel® mint, 10 kg tub	52049
• WiroGel® M, 6 kg tub	54351
• WiroGel® M, 10 kg tub	54354
• Wirosil®, duplicating silicone basic set	52000
Investment materials	**REF**
• Wirovest®, 45 × 400 g bag, 18 kg box	51046
• Wirovest®, 15 × 400 g bag, 6 kg box	51047
• WiroFine®, shock-heat compatible directly at 1,000 °C	
45 × 400 g bag, 18 kg box	54345
15 × 400 g bag, 6 kg box	54344
30 × 200 g bag, 6 kg box	54348

Subject to modifications in design, scope of delivery and composition. Our instructions for use and recommendations are based on our own experience and trials and can only be regarded as guidelines. Date of issue: March 2017.

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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