



Wironit® LA

Consistent further development for laser welding

- 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

Wironit® LA – the universal alloy

Wironit® LA is the result of systematic further development of the Wironit alloy group. The outstanding mechanical properties make this chrome-cobalt-molybdenum alloy an all-rounder in the laboratory.

The advantages for you:

- The Young's modulus of approx. 240 GPa underlines the high rigidity of Wironit® LA – no deformation, even with high loading
- The partial denture bases can have a very slender design, ensuring a high degree of intraoral comfort for the patient
- The elongation after fracture of 9 % allows easy activation of the clasps

High corrosion-resistance

The corrosion-resistance of Wironit® LA is produced by the balanced ratio of chrome, molybdenum and cobalt, ensuring that that the alloy is passive in the mouth.

The advantages for you:

- The alloy has a resistant, adhering passive layer which protects it against aggressive influences
- Guarantee of biocompatibility
- High degree of safety for the dentist and patient (biocertificate available at www.bego.com)
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Easy processing

Highly precise castings are achieved in the proven BEGO system.

The advantages for you:

- Easy and reliably processing using all suitable melting techniques
- Very fine metal structure. This provides restorations with superior strength and a particularly dense, high-lustre surface after polishing
- Efficient prevention of plaque build-up in the patient's mouth



Wironit® LA – laser-optimised for biocompatible joints

Optimised for laser welding technology

Wironit® LA has been specially optimised for laser welding.

The advantages for you:

- Controlled carbon content and the addition of tantalum ensure excellent laser-welding properties
- Very strong joints can be created when welding without adding any further additives e.g. "butt joint"



The high-performance laser welder LaserStar T plus (REF 26405) – perfection in the micro-welding technique

Produktdetails

Alloy characteristics	Standard values
• Alloy type (ISO 22674)	5
• Density	8.2 g/cm ³
• Preheating temperature	950–1050 °C
• Solidus, liquidus temperature	1260, 1390 °C
• Casting temperature approx.	1450 °C
• Young's modulus	240 GPa
• Proof strength (Rp0.2)	690 MPa
• Ultimate strength (Rm)	890 MPa
• Elongation after fracture (A5)	9 %
• Vickers hardness (HV10)	365 HV10

Composition in % by mass

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

Availability	Prese- ntation	Content	REF
• Wironit® LA	1 Pack	1000 g	50100

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	52520

ISO 22674

We reserve the right to make changes in the design, pack contents and composition. Statements and recommendations on technique are based on our experience and tests and should be regarded as guidelines. Date of issue: March 2017.