Wironit® LA

All-round cobalt-chrome alloy for the partial denture technique

- Wide range of indications for reliable use in partial-denture work and fixed-removable restorations
- Excellent laser-welding properties ensure high-strength joints, even in extreme situations
- Easy processing in the BEGO partial denture system
- Low thermal conductivity means high intraoral comfort for the patient
- Biocompatible and corrosion-resistant – biocompatibility certified by a neutral institute

Partners in Progress

BEGO

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 modulus of elasticity of approx. 220 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
- An 8% elongation at rupture 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
- Biocertificate from independent institutes – high degree of safety for the dentist and patient
- Biocertificate available at www.bego.com

Easy processing

Highly precise castings are achieved in the proven BEGO system.

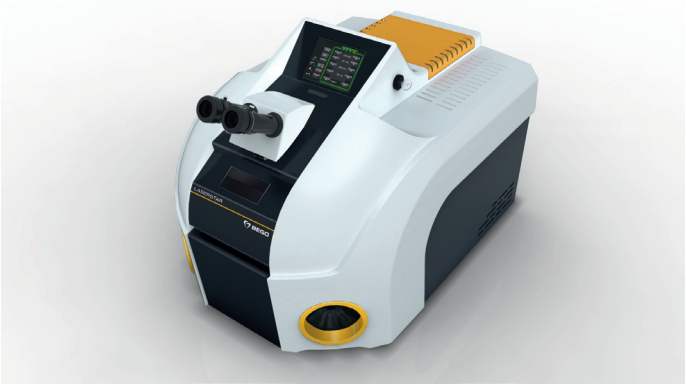
The advantages for you:
- Wironit® LA can be easily and reliably processed using all suitable melting techniques
- Wironit® LA has a very fine metal structure. This provides restorations with superior strength and a particularly dense, high-lustre surface after polishing – for efficient prevention of 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 filler materials, e.g. "butt joint"



The high-performance laser welder LaserStar – perfection in the micro-welding technique

Wironit® LA			
Alloy characteristics	**Standard values**		
• Colour	silver		
• Density [g/cm³]	8.2		
• Melting range [°C]	1300 –1340		
• Casting temperature [°C]	1450		
• Elongation at rupture (A_5) [%]	8		
• Tensile strength (R_m) [MPa]	940		
• Proof stress ($R_{p\,0,2}$) [MPa]	640		
• Modulus of elasticity [GPa]	approx. 220		
• Vickers hardness (HV10)	360		
Composition in % by mass			
• Co 63.5 · Cr 29 · Mo 5 · Si 1,2 · Mn · N · C · Ta			
Product	**Presentation**	**Contents**	**REF**
• Wironit® LA	1 pack	1000 g	50100
Accessories			
• Wiroweld (CoCr laser wire, free of carbon)			
Ø 0.5 mm	1 pack	1.5 m	50005
Ø 0.35 mm	1 pack	2 m	50003
• Cobalt-chrome solder	1 pack	5 g	52520
• Certificate			82645

ISO 22674 · CE 0197

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: February 2013.

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