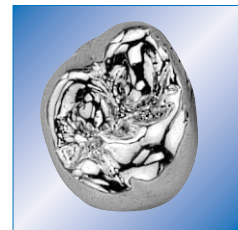


# Infogramm®

## *remanium® star*

### Characteristics

*remanium® star* is a new generation CoCr bonding alloy with unusually low hardness.



### Indications

A variety of indications:

- Crowns and bridges
- Telescope crowns
- Implant supported supra-structures
- Adhesively fixed bridges
- Secondary parts for cast alloy partial denture frameworks

### Product advantages

- Exceptionally good working characteristics, especially when trimming and polishing, due to the unusually low hardness.
- Excellent for ceramic bonding due to a low coefficient of thermal expansion.
- Increased working efficiency: No oxide firing required.
- Excellent melting and casting characteristics.
- Flexible handling:  
High frequency, electrical arc and the torch are all methods with which *remanium® star* can be molten without spitting.
- Excellent laser welding because *remanium® star* is carbon-free.
- Bio-compatible:
  - Nickel-free
  - Beryllium-free
  - Iron-free
  - No questionable elements such as indium or gallium
  - High resistance to corrosion



Composition  
% Mass

Co	Cr	W	Si
60,5	28,0	9,0	1,5

Other elements under 1%: N, Mn, Nb

Technical data  
After DIN-No. 13912

Proof stress $R_{p0,2}$ (MPa)	620
Tensile strength $R_m$ (MPa)	845
Modulus of elasticity (GPa)	190
Hardness (HV <sub>10</sub> )	280
Fracture elongation $A_5$ (%)	10.2
Solidus $T_s$ (°C)	1320
Liquidus $T_l$ (°C)	1410
Density g/cm <sup>3</sup>	8,6
CTE (25-500 °C) (K <sup>-1</sup> )	14,1 x 10 <sup>-6</sup>
Melting	+++
Casting	+++
Torch casting	+++
Finishing	+++
Milling characteristics	+++
Ceramic bonding	+++
Polishing	+++
De-gas	No
Laser welding	+++
Soldering with ...	CoCr 102-306-00
Investment material	Castorit® all speed Trivest Castorit® super C

+++ = excellent ++ = very good

Test marking/patents/  
certificates of quality:

CE 0483  
Medical Device Services Gilching

Units available to order

50 g    Order-No. 102-621-00  
250 g    Order-No. 102-622-00  
1000 g    Order-No. 102-620-00

Date of information

04/04

