



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

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#### Product details

##### Composition in % by mass

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

##### Alloy characteristics

Alloy characteristics	Standard values
Type (ISO 22674)	4
Density	8.6 g/cm <sup>3</sup>
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 <sub>p0.2</sub> )	485 MPa
Elongation after fracture (A <sub>5</sub> )	11 %
Vickers hardness	305 HV10
Coefficient of thermal expansion (CTE) 25–500 °C, 10 <sup>-6</sup> K <sup>-1</sup>	14.3

##### Availability

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