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Technical data sheet

MAGNUM SOLARE

CE 0425

Cobalt based dental alloy for ceramic, type 4*

Percentage chemical composition (m/m)	
Co	66
Cr	27
Mo	6
Others -	Si, Mn

Physical and mechanical properties	
Density	8.4 g/cm ³
Solidus-liquidus temperature	1307-1417°C
Melting point	1470°C
Yield load strength (Rp 0.2)	395 MPa
Percentage elongation at fracture	11%
Modulus of elasticity	233 GPa
Vickers hardness	255 HV10
Colour	White
Thermal expansion coefficient 25-500°C	$14.3 \cdot 10^{-6} \text{ K}^{-1}$
Thermal expansion coefficient 25-600°C	$14.5 \cdot 10^{-6} \text{ K}^{-1}$
Maximum cooking temperature	980°C

Biological evaluation tests	
Cytotoxicity test according to ISO 10993-5	Passed