PRODUCER OF SPECIAL ALLOYS SINCE 1975

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Technical data sheet

MAGNUM SATURNO

烤瓷专用镍基牙科合金, 类 3*
Nickel based dental alloy for ceramic, type 3*

化学成分的百分比(m/m) Percentage chemical composition (m/m)	
Ni	63
Cr	26
Mo	9
Si	1.5

物理和机械性能 Physical and mechanical properties	
浓度 Density	8.2 g/cmc
凝固 - 熔化温度 Solidus-liquidus temperature	1190-1303°C
熔炼温度 Melting point	1360°C
屈服应力 (Rp 0.2) Yield load strength (Rp 0.2)	300 MPa
断裂伸长率 Percentage elongation at fracture	37%
弹性模量 Modulus of elasticity	197 GPa
维氏硬度 Vickers hardness	173 HV10
颜色 Colour	白色 White
热膨胀系数 25-500°C Thermal expansion coefficient 25-500°C	$13.8 \cdot 10^{-6}\ K^{-1}$
7天后离子释放率 Percentage of ions release after 7 days	$2.7\ \mu g/cm^2$
最高加热温度 Maximum cooking temperature	950°C

生物评估测试 Biological evaluation tests	
根据ISO 10993-5执行的细胞毒性测试 Cytotoxicity test according to to ISO 10993-5	通过 Passed