

**Technical data sheet**

# MAGNUM HYPERONE

## CE 0425

Titanium based dental alloy for CAD/CAM milling, type 4\*

Grade 23 according to standard ASTM F136

Percentage chemical composition (m/m)	
Ti	90
Al	6
V	4
Others -	Fe

Physical and mechanical properties	
Density	4.426 g/cm <sup>3</sup>
Solidus-liquidus temperature	1605-1660°C
Melting point	1710°C
Yield load strength (Rp 0.2)	880 MPa
Percentage elongation at fracture	14%
Modulus of elasticity	114 GPa
Vickers hardness	312 HV10
Colour	White
Thermal expansion coefficient 25-500°C 25-500°C	$9.9 \cdot 10^{-6} \text{ K}^{-1}$
Thermal expansion coefficient 25-600°C 25-600°C	$10 \cdot 10^{-6} \text{ K}^{-1}$

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