

PROPERTY OF TITANIUM GRADE 5 6Al 4V

Composition: Ti: 90% Al: 6% V: 4%

Ti

Technical Data

Density	4.43 g/cm³
Hardness	288-318 Brinell
Tensile Strength R_m	896 MPa
Yield Strength (0.2% Offset)	827 MPa
Modulus of Elasticity - Torsion	42.06 GPa
Modulus of Elasticity - Tension	113.8 GPa
Thermal Expansion	10.6 μm/m°C

PROPERTY OF COBALT-CHROME

Composition: Co: 59% Cr: 25% W: 9.5% Mo: 3.5% Si: 1%
Other: C; Fe; Mn; N: maximum 1.5%

Co-Cr

Technical Data

Density	8.8 g/cm³
Hardness	275 HV 10
Tensile Strength R_m	735 MPa
Yield Strength (0.2% Offset)	510 MPa
Modulus of Elasticity E	200 GPa
Elongation A₅	8.1%
Thermal Expansion	14 μm/m°C

* The alloy is a type 4 alloy according to ISO 22674. Free of beryllium and nickel

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