

## PROPERTY OF TITANIUM GRADE 5 6Al 4V

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

**Ti**

### Technical Data

<b>Density</b>	<b>4.43 g/cm<sup>3</sup></b>
<b>Hardness</b>	<b>288-318 Brinell</b>
<b>Tensile Strength R<sub>m</sub></b>	<b>896 MPa</b>
<b>Yield Strength (0.2% Offset)</b>	<b>827 MPa</b>
<b>Modulus of Elasticity - Torsion</b>	<b>42.06 GPa</b>
<b>Modulus of Elasticity - Tension</b>	<b>113.8 GPa</b>
<b>Thermal Expansion</b>	<b>10.6 µm/m°C</b>

## 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

<b>Density</b>	<b>8.8 g/cm<sup>3</sup></b>
<b>Hardness</b>	<b>275 HV 10</b>
<b>Tensile Strength R<sub>m</sub></b>	<b>735 MPa</b>
<b>Yield Strength (0.2% Offset)</b>	<b>510 MPa</b>
<b>Modulus of Elasticity E</b>	<b>200 GPa</b>
<b>Elongation A<sub>5</sub></b>	<b>8.1%</b>
<b>Thermal Expansion</b>	<b>14 µm/m°C</b>

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