



## Ti Gr 5 / 3.7165

Titanium Grade 5 is the most widely used titanium alloy. It is characterized by good hot formability and weldability. It is also resistant to salt water, marine atmosphere and a variety of corrosive media temperatures below 300 °C. Grade 5 titanium alloy is most likely to be accepted by the human body (medical industry).

Gehe zu



### Material Data Sheet

Material Design action	3.7164/3.7165
Material	Titanium Gr 5
Material Symbol	R56400
Trademark	Ti6Al4V

### Main fields of application of Titanium Gr 5

Titanium Grade 5 is found as most used alloy in many areas again. Thus, for example in:

- Aerospace and Aircraft
- sports equipment
- Medical industry
- chemical Industry

### Chemical composition of Titanium Gr 5

Ti	Al	V	H
%	%	%	max %
88.74-91.0	5.5-6.75	3.5-4.5	0.015

### Characteristics of Titanium Gr 5

Temperature Range	High temperature range/Material for wet corrosion
Density	4.43 g/cm <sup>3</sup>
Melting Range	1650°C
ISO-V notch impact toughness at -59°C	across < J/cm <sup>2</sup> lengthwise < J/cm <sup>2</sup>
Ultimate Tensile Strength	135 KSI (950 MPa)
Yield Strength (0.2% offset)	125 KSI (880 MPa)
Elongation	15%
Hardness	Rc 34

### Filler metal (for welding with titanium Gr 5)

As filler for titanium grade 5 titanium bare wire of the same group can be used.

### Delivery program

1mm Dia < 400mm Dia Wire , Rods and Bars

0.8mm < 101.6mm Thick Sheets, Plates & coils

### Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

## Contact us



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## Services



Waterjet cutting



Laser cutting



Plasma cutting



Shear cutting

## Weight Calculator