

# **Data Sheet: Titanium 3.7035**

### **Alternative Designations**

Standard	EN	ANSI/AA	UNS	JIS
Designation	Titan Grade	Ti-Grade 2	R50400	Class 2
	2			

#### **Details**

This unalloyed titanium has excellent strength-to-weight ratio with good resistance to corrosion. Due to its low thermal expansion, thermal stresses are low. It is widely used in weight-saving structures and also suitable in the medical sector due to its outstanding biocompatibility.

### **Key Features**

Excellent strength-to-weight ratio • Good resistance to corrosion

#### **Chemical Composition**

Element	Ti	Fe	0	С	N	H
Percentage	≥98.9	0.3	0.25	0.08	0.03	0.015

### **Mechanical Properties**

Property	Yield strength [MPa]	Ultimate tensile strength [MPa]	Elongation [%]	Hardness
Value	275 - 410	344	20	80



## **Physical Properties**

Property	Value
Density [g/cm³]	4.51
Module of elasticity [GPa]	105
Electrical conductivity $[m/\Omega \cdot mm^2]$	2.08
Coefficient of thermal expansion [K-1 · 10-6]	8.6
Thermal conductivity [W/m · K]	16.4
Specific heat capacity [J/kg · K]	523

#### Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit <u>Materialdatacenter.com</u> for further information on this material.