

Technical datasheet

Ti Grade 1 / W-Nr. 3.7025

Commercially pure, unalloyed titanium offering optimum ductility and cold formability.

Available products

Product form
Sheet/plate

Size range from
0.4 mm thickness

Size range to
30.0 mm thickness

Chemical composition (%)

Ti	Fe	C	O	N
Balance	0.20 max	0.08 max	0.18 max	0.03

Major specifications

ASTM B265, F67
ISO 5832-2

UNS R50250

Physical properties

Density 4.51 g/cm³
Melting point 1670°C

Beta transus temperature 888 ± 4 °C

Mechanical properties – typical room temperature properties

Yield strength 172 MPa
Tensile strength 240 MPa
Elongation 24 %

Key attributes

Commercially pure titanium Grade 1 has high impact toughness, moderate strength and optimum ductility and cold formability. It has the highest cold formability of the available titanium grades and is suitable for deep drawing. It has excellent general and sea water corrosion resistance and offers high corrosion resistance in oxidizing, neutral and mildly reducing media including chlorides. The low density of titanium (approximately half that of nickel-based alloys), high strength to weight ratio and corrosion resistance make it the ideal material for many corrosive chemical environments.

Applications

Chemical and marine engineering
Plate heat exchangers
Reaction vessels
Pharmaceutical
Medical and dental applications

Do you require further information or a quotation?

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