

## Technical datasheet

## Ti Grade 2 / W-Nr. 3.7035

Commercially pure unalloyed titanium offering an excellent balance of strength and ductility.

### Available products

#### Product form

Sheet/plate  
Bar  
Tube/pipe

#### Size range from

0.1 mm thickness  
0.7 mm diameter  
5.0 mm outside diameter

#### Size range to

50.0 mm thickness  
304.8 mm diameter  
219.1 mm outside diameter

### Chemical composition (%)

Ti	Fe	C	O	N	H
Balance	0.30 max	0.08 max	0.25 max	0.03 max	0.015 max

### Major specifications

ASTM B265, B348, B338, B861, F67  
ISO 5832-2  
AMS B862, B863

UNS R50400

### Physical properties

Density	4.51 g/cm <sup>3</sup>	Beta transus temperature	920 ± 4 °C
Melting point	1670°C		

### Mechanical properties – typical room temperature properties per ASTM B348

Yield strength	276 MPa
Tensile strength	345 MPa
Elongation	20 %

### Key attributes

Commercially pure unalloyed titanium offering an excellent balance of strength and ductility. It has good impact toughness and is readily weldable. It has good corrosion resistance in highly oxidising environments, alkali media, aqueous salt solutions and in mildly reducing environments, nitric acids and wet chlorine gas. It also has outstanding resistance to sea water and brines. The low density of titanium, high strength to weight ratio and corrosion resistance make it the ideal material across a wide range of applications. As it is castable it is often used for cast valves and fittings.

### Applications

Chemical and marine engineering  
Plate heat exchangers  
Reaction vessels, evaporators and condensers  
Electroplating jig  
Desalination plant and sea water heaters  
Medical and dental applications

Do you require further information or a quotation?

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