

## **Technical datasheet**

### **Titanium Grade 2**

## **Major specifications**

## **Available product forms**

Coils and Sheets in ASTM B265 + ASTM F67 + ISO 5832 + ASME SB 265

Plates in ASTM B265 + ASME SB 265

Round bars in ASTM B348 + ASTM F67 + ISO 5832

The current stock range can be found on www.sd-metals.com.

Further dimensions available upon request.

Use our Service Centre to have the available sizes cut to your desired dimensions.

#### **Key features**

Commercially pure unalloyed titanium, which offers an excellent balance between strength and ductility. It has good impact strength and is readily weldable. It has good corrosion resistance in highly oxidizing environments, alkaline media, aqueous salt solutions, slightly reducing environments, nitric acid- and wet chlorine gas. It also has excellent resistance to seawater and salt solutions. Titanium's low density, high strength-to-weight ratio and resistance to corrosion make it an ideal material for a wide range of applications. Because it is castable, it is often used for cast valves and fittings.

### **Applications**

- corrosion resistance in chemical and maritime industries
- plate heat exchangers
- reaction vessels
- evaporators
- condensers

- electroplating equipment
- desalinization plants
- seawater heaters
- medical equipment
- structural engineering

## **Chemical properties**

Composition - limits in % (ASTM B265 + ASTM B348)

Fe	0	С	N	Н	Ti
max. 0,30	max. 0,25	max. 0,08	max. 0,03	max. 0,015	Rest

# Physical and thermal properties

Density	4,51 g/cm <sup>3</sup>
Melting temperature	1670°C
Beta transus temperature	920 ± 4°C
Thermal conductivity at 20°C	16 W/ m°C

# Typical mechanical properties (room temperature)

	ASTM B265	ASTM B348
Yield strength	min. 275, max. 450 MPa	min. 275 MPa
Tensile strength	min. 345 MPa	min. 345 MPa
Elongation	min. 20%	min. 20%

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All information is subject to change without notice. The properties correspond to the material in the heading. They may vary for other specifications. Please contact us for more details.