

Technical datasheet

Titanium Grade 4

Major specifications

ASTM F67	ASTM B863	ASTM B348	ASTM B265	ISO 5832-2	3.7065	UNS R50700
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Available product forms

Sheets in ASTM B265

Wire in ASTM B863

Round bars in ASTM B 348 | ASTM F67

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

Further dimensions available upon request.

Key features

Titanium Grade 4 has a higher gas content compared to other classic pure titanium grades, which results in higher strengths. The level of strength is comparable to that of classic stainless steels while offering a high strength-to-weight ratio and superior corrosion resistance. For example, Titanium Grade 4 has excellent corrosion resistance in brine and salt solutions, oxidizing media, alkaline media, organic acids and seawater.

Applications

- chemical and maritime industries
- electroplated frame contacts
- anodizing equipment
- electropolishing
- vessel construction
- frame construction
- fasteners where applicable
- medical devices
- dental implants
- surgical instruments

Chemical properties

Composition - limits in % (ASTM B348 | 863 + B265)

Fe	O	C	N	H	Ti
max. 0,50	max. 0,40	max. 0,08	max. 0,05	max. 0,015	Rest

Physical and thermal properties

Density	4,51 g/cm ³
Melting temperature	1670°C
Beta transus temperature	835 ± 4°C
Thermal conductivity at 20°C	17 W/ m°C

Typical mechanical properties (room temperature)

	ASTM B348 863	ASTM B265
Yield strength	min. 483 MPa	min. 483 MPa, max. 655 MPa
Tensile strength	min. 550 MPa	min. 550 MPa
Elongation	min. 15%	min. 15%

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.