



TECHNICAL DATASHEET

Commercially Pure Titanium – Grade 2 FT 005 – Version 0

913

1670

The four types of commercially pure titanium currently on the market (1/2/3/4) are used for applications requiring good ductility combined with excellent corrosion resistance, moderate strength and good weldability. The limited impurities are iron, oxygen and nitrogen, the variations in content of which define each grade's mechanical properties, from the softest and most ductile (Grade 1) through to the hardest and strongest (Grade 4).

Grade 2 titanium is the most popular and widely-available of the four commercially pure grades. It has similar corrosion resistance and formability to Grade 1, but with higher strength.

APPLICATIONS Industrial Medical Aeronautic STANDARDS			ADVANTAGES Corrosion resistance Formability Weldability SHAPES												
								ASTM B348 / ASME SB348 ASTM B265 / ASME SB265 ASTM B338 / ASME SB338 ASTM B861 / ASTM B862 ASTM B381 NACE MR0175 AWS A5.16 ERTi2 ASTM F67 ISO 5832-2 AMS 4902			BAR Diameter 3-300 mm Typical length 2500-3500 mm				
											SHEET/ PLATE Thickness 0.4-80 mm Typical dimensions 1000 x 2000 mm / 1250 x 2500 mm				
TUBES some dimensions stocked and on request															
						1									
0	N	С	Н	Other (each)	Other (total)	Ti									
						residue									
0.25	0.03	0.08	0.015	0.1	0.4										
Rp0.2 Yield strength (MPa)		Elongation (% min)			Necking (% min)										
275		20			30										
	1					1 - 1									
Density (g/cm³)			4.51												
Hardness (HV)			145												
Modulus of elasticity at 20°C (N/mm²)			105 x10³												
Thermal conductivity at 20°C (W/m °C)			16.4												
Mean coefficient of thermal expansion at 20-200°C (mm °C)			8.7 x10-6												
	B348 B265 B338 3862 O 0.25 Rp(Yield st (MF 27) C (N/mm²) C (W/m °C)	B348 B265 B338 B3862 O N 0.25 O.03 Rp0.2 Yield strength (MPa) 275 CC (N/mm²) C (W/m °C)	B348 B265 B338 B3862 Typical dimessom O N C 0.25 0.03 0.08 Rp0.2 Yield strength (MPa) 275 C (N/mm²) C (W/m °C)	Corros FC W S B348 B265 B338 B3862 SHE Typical length Thicknes Typical dimensions 100 Some dimensions O N C H 0.25 0.03 0.08 0.015 Rp0.2 Yield strength (MPa) 275 20 C (N/mm²) C (W/m °C)	Corrosion resistan Formability Weldability SHAPES B348 B265 B338 B3862 SHEET/ PLATE Thickness 0.4-80 Typical dimensions 1000 x 2000 m TUBES Some dimensions stocked ar O N C H Other (each) 0.25 0.03 0.08 0.015 0.1 Rp0.2 Yield strength (MPa) 275 20 4.51 145 CC (N/mm²) C (W/m °C) 16.4	Corrosion resistance Formability Weldability									

The information and technical data contained in this sheet are for information purposes only. Only the information written on our material analysis certificates will be official.

Beta transus (°C)

Fusion temperature (°C)