



TECHNICAL DATASHEET

Commercially Pure Titanium Modified– Grade 7 Version 0

Unalloyed Titanium with addition of Pd. Most Resistant Ti alloy with Physical and mechanical properties equivalent to Gr2, used in the chemical industry.

APPLICATIONS	ADVANTAGES
Industrial	Corrosion resistance Formability Weldability
STANDARDS	SHAPES
ASTM B348 / ASME SB348 ASTM B265 / ASME SB265 ASTM B338 / ASME SB338 ASTM B861 / ASTM B862 ASTM B381	BAR <hr style="border-top: 1px dashed black;"/> SHEET/ PLATE On request <hr style="border-top: 1px dashed black;"/> TUBES some dimensions stocked and on request

➤ CHEMICAL COMPOSITION

%	Fe	O	N	C	H	Pd	Ti
min						0.12	Balance
max	0.3	0.25	0.03	0.08	0.015	0.25	

➤ MECHANICAL PROPERTIES

Rm Tensile strength (MPa)	Rp0.2 Yield strength (MPa)	Elongation (% min)	Reduction of Area (% min)
345	275	20	30

➤ PHYSICAL PROPERTIES

Density (g/cm ³)	4.51
Hardness (HV)	145
Modulus of elasticity at 20°C (N/mm ²)	105 x10 ³
Thermal conductivity at 20°C (W/m °C)	20,8
Mean coefficient of thermal expansion at 20-200°C (mm °C)	8.7 x10 ⁻⁶
Beta transus (°C)	913
Fusion temperature (°C)	1670