

Trade name | Ti 2 Pd

Standards	Material No.	EN Designation	ASTM	UNS
	3.7235	Titan Grade 7	Ti-Grade 7	R52400

Description | Ti-Grade 7: Unalloyed titanium + 0.12 % to 0.25 % Pd, standard oxygen,

Special properties | Low-alloy titanium materials were mainly developed for use in the chemical industry. They offer the same excellent properties as pure titanium grades together with improved corrosion resistance. This is achieved by means of minor additions of Pd and Ni + Mo, which raise their resistance to reducing solutions and reduce their susceptibility to crevice corrosion, especially in chloride-containing media.

Chemical Composition	C %	N %	Ti ≤ %	Fe %	O %
	≤ 0.08	≤ 0.03	Rest	≤ 0.30	≤ 0.25
	H %	Pd %			
	≤ 0.015	0.12-0.25			

Mechanical Properties 20°C	Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
	150	275	≥ 345	20	108

Physical Properties 20°C	Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	4.5	520	17	0.5

Application | Chemical industry, especially in chloride-containing media

Available forms for 3.7235 / Ti-Grade 7	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							