

### Standards

Material No.	EN Designation	ASTM	UNS
3.7225	Titan Grade 11	Ti-Grade 11	R52550

### Description

Ti-Grade 11; Unalloyed titanium + 0.12 % to 0.25 % Pd, low 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	≤ 0.20	≤ 0.18
H %	Pd %			
≤ 0.015	0.12-0.25			

### Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Elongation A <sub>5</sub> ≥ %	Modulus of elasticity kN/mm <sup>2</sup>
120	170	≥ 240	24	105

### Physical Properties 20°C

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm <sup>2</sup> /m
4.5	520	22.6	0.47

### Application

Chemical industry, especially in chloride-containing media

### Available forms for 3.7225 / Ti-Grade 11

Sheets/Plates	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
				