3.7035 Ti-Grade 2

Trade name	Ti 2
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Standards 5 8 1

	Material No.	III	Material No.	EN Designation	ASTM	UNS
3.7035 Titan Grade 2 Ti-Grade 2 R50400	3.7035		3.7035	Titan Grade 2	Ti-Grade 2	R50400

Special properties

makes them suitable for the manufacture of components in weight-saving structures with reduced mass forces, and also for components requiring high corrosion resistance. In addition, thermal stresses in titanium structures are lower than in other metallic materials, due to the low thermal expansion of titanium. The materials are also widely used in

C

9% ≤ 0.08 Н

Chemical Composition

Mechanical Properties

Physical Properties 20°C

20°C

9% ≤ 0.015

Hardness HB 30

 \leq HB

150

Thermal conductivity Density Specific heat capacity q/cm3 J/kg K W/m K 4.51 520

Application Chemical industry, aerospace industry, medical engineering

Available forms for 3,7035 Sheets/Plates / Ti-Grade 2













Description Ti-Grade 2; Unalloyed Titanium - Standard Oxygen

Commercially pure titanium grades feature an excellent strength-to-density ratio and good corrosion resistance. This

Ν

%

 ≤ 0.03

0.2% Yield strength R.

≥ N/mm²

275

the medical sector because of their outstanding biocompatibility.

Ti

≤ %

Rest

Fe %

 ≤ 0.30

≤ 0.25

0

%

N/mm² ≥ 345

Tensile strenath R.

20

20 Electrical resistivity

 Ω mm²/m

0.48

Elongation A:

> %

kN/mm² 105

Modulus of elasticity

Fittings

parts