

**1.4571 / X6CrNiMoTi17-12-2 / AISI 316 Ti** — austenitic

Summary

The material 1.4571 is a stainless, austenitic chromium-nickel-molybdenum steel, stabilized with Titanium.

Chemical Analysis

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti
min.	-	-	-	-	-	16,5	10,5	2,00	min. 5 times C- Content
max.	0,08	1,00	2,0	0,045	0,03	18,5	13,5	2,50	0,7

Properties

The material 1.4571 has an excellent weldability and a very good corrosion resistance, 1.4571 is magnetic and has a forging ratio of at least 3.5.

We store this material solution-annealed and quenched.

Application Areas

The good mechanical properties are the reason for the wide variety of possible uses of this material. The main areas of application are the chemical industry, the construction industry, the food industry, mechanical engineering, the medical and pharmaceutical industry and ship building.

Use

In particular, is the material 1.4571 use for example for telescopic rails in boat building, for filter blocks in the oil industry and used for casing for piston pumps.

International designation

DIN EN 10088	1.4571 X6CrNiMoTi17-12-2
Aisi	AISI 316 Ti
AFNOR	Z6CNDT17-12
SS	SS2242

Mech. Properties at  
Room temperature (QT700)

Re Yield point	A Elongation	KV Impact Strength	Rm Tensile Strength	Hardness
min. 210 N/mm <sup>2</sup>	min. 35 % Cross sample min. 40 % Longitudinal Sample	min. 60 J Cross sample min. 100 J Longitudinal Sample	500-700 N/mm <sup>2</sup>	≤ 215 HB

Special Features

We store the material 1.4571 tempered in a particularly excellent quality.

The material is sourced exclusively from the EU. Our 1.4571 is 100% US approved.

Delivery options

We can saw the material to your required dimensions.

Request/questions:

Do you have a request, or have a question about the material 1.4571?

Contact us!. Our competent staff will gladly help you.

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