

1.4313 / X3CrNiMo13-4 / F6NM — Corrosion resistant, martensitic

Summary

1.4313 is corrosion resistant, softmartensitic chrome-nickel steel with molybdenum addition. Very good strength and toughness properties.

Chemical Analysis

	C	Si	Mn	P	S	Cr	Ni	Mo	N
min.	-	-	-	-	-	12,0	3,5	0,3	0,02
max.	0,05	0,7	1,5	0,04	0,015	14,0	4,5	0,7	-

Properties

The material 1.4313 impresses with its very good mechanical properties. Has good toughness properties in the tempered state. F6NM can be used in the temperature range from -60 ° C to 300 ° C. The material 1.4313 also has a medium corrosion resistance and machinability, as well as poor weldability and ist easy to polish. 1.4313 can be welded using arc welding.

Application Areas

Due to its good mechanical properties, 1.4313 is used in the chemical and petrochemical industries, plant engineering, the pump industry and turbine wheels. 1.4313 is also used in power engineering and in valve construction.

Use

For example, waves, valves, vanes, pump covers and pump housings are manufactured from material 1.4313.

International designation

DIN EN 10088	1.4313 X3CrNiMo13-4
Aisi	AISI CA6-NM
ASTM	F6NM
UNS	UNS S41500
JIS	SUSF6NM
AFNOR	Z6CN13-04
SS	2384
UNE	X3CrNiMo13-4
B.S.	X3CrNiMo13-4

Mech. Properties at
Room temperature (QT780)

Re Yield point	A Elongation	Z Reduction	KV Impact test	Hardness
min. 635 N/mm ²	min. 15 %	min. 40 %	min. 50 J	245-309 HB

mech. Properties at
Room temperature (QT900)

Re Yield point	A Elongation	KV Impact strength	Hardness
min. 800 N/mm ²	min. 10 %	min. 40 J	285-346 HB

Special Features

We store the material 1.4313 in outstanding quality. The material is sourced exclusively from the EU. 1.4313 is 100% US-tested.

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 1.4313?

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

Stahlhandel Gröditz GmbH

Antje Schroeder

Am Güterbahnhof 6-8

01609 Gröditz

aschroeder@stahlportal.com

Tel.: +49 (0) 35263/665-13



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