

## 1.4313 (X3CrNiMo13-4)

**1.4313 (X3CrNiMo13-4) EU material directly from stock & cut to your required dimensions!**

**International term:** F6NM / C54868 / S41500 / AISI CA 6-NM / SGS6X / SGS5 / ASTMA182 / F6NM430F / SS2385

**Application field:** 1.4313 is a corrosion and acid resistant softmartensitic chrome-nickel steel with molybdenum addition. Very good strength and toughness properties.

**Main applications are in the petroleum industry, for components in power plants and turbinewheels.**

**Characteristics:**

**Weldability:** bad

**Machinability:** 5 (1 = very bad - 10 = good)

**Polishability:** yes

**Corrosion class:** 2 (0 = weak - 5 = good)

**Chemical composition:**

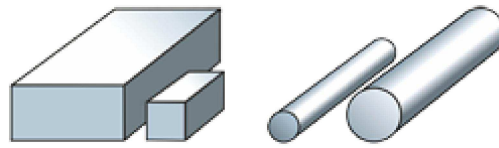
1.4313 X3CrNiMo13-4	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						12,0	0,4	3,5	
max.	0,05	0,6	1,0	0,035	0,02	14,0	0,7	4,5	

1.4313 X3CrNiMo13-4	Al	Cu	N	Nb	Ti	Sonstiges
min.			0,02			
max.						

**From stock:**

round, rolled / forged, quenched and tempered, machined oder peeled surface

flat, forged, quenched and tempered, pre-machined



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**Benefit of sawn cuts:**

The processing with the saw is a mechanical processing of the material, which results in a significantly lower unintended deformation and increased hardness for the existing structure, such as the thermal cutting.

Thus, the machined workpiece has a homogeneous structure even at the edge, which does not change in the continuation of the material. This circumstance allows immediate finishing of the workpiece with milling or drilling . So it is not necessary to anneal the material or make a similar operation beforehand.

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