



1.4418 (X4CrNiMo16-5-1)

1.4418 (X4CrNiMo16-5-1) EU material directly from stock & cut to your required dimensions!

International term: SIS: 2387 / SS2387

AFNOR: Z6CND16-05-1

Application field: 1.4418 is a corrosion and acid resistant softmartensitic chromium-nickel-molybdenum steel (martensitic-austenitic-ferritic mixed structure).

The areas of application are water turbine components, pump shafts, mechanical engineering, shipbuilding, aerospace.

Characteristics: **Weldability:** good

Machinability: 4 (1 = very bad - 10 = good)

Polishability: yes

Corrosion class: 3 (0 = weak - 5 = good)

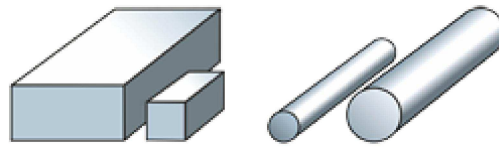
Chemical composition:

1.4418 X4CrNiMo16-5-1	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						15,0	0,8	4,0	
max.	0,06	0,7	1,5	0,04	0,02	17,0	1,5	6,0	

1.4418 X4CrNiMo16-5-1	Al	Cu	N	Nb	Ti	Sonstiges
min.						
max.			0,02			

From stock:

round, rolled / forged, quenched and tempered, machined or peeled surface
flat, forged, quenched and tempered, pre-machined



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.
