

1.4435 (X2CrNiMo18-14-3) solution- annealed and quenched

1.4435 (X2CrNiMo18-14-3) directly from stock & cut to your required dimensions!

International term: AFNOR Z3CND17-12-03 / Z3CND18-14-03
AISI 316L / SS2353

Application field: 1.4435 is an austenitic stainless chromium-nickel-molybdenum steel with low carbon content.

It is distinguished by its very good corrosion resistance in natural environmental media (water, rural and urban atmosphere) and is resistant to various acids.

Industrial use in chlorine and salt concentrations.

It is mainly used in the medical and pharmaceutical industry, chemical industry, petroleum industry, petrochemical industry, for electronic equipment and for manufacturing synthetic fibers.

Characteristics:

Weldability: excellent

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

Polishing: yes

Corrosion class: 4 (0 = weak - 5 = good)

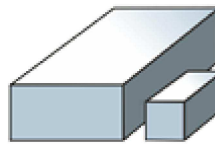
Chemical composition:

1.4435 X2CrNiMo18-14-3	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						17,0	2,5	12,5	
max.	0,03	1,0	2,0	0,045	0,03	19,0	3,5	13,5	

1.4435 X2CrNiMo18-14-3	Al	Cu	N	Nb	Ti	Sonstiges
min.						
max.			0,11			

From stock:

Flat, forged

**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.