



## 1.4401 (X5CrNiMo17-12-2) solution- annealed and quenched

1.4401 (X5CrNiMo17-12-2) directly from stock & cut to your required dimensions!

**International term:** AISI 316 / SS2347  
AFNOR Z7CND17-11-02 / Z7CND17-12-02

**Application field:** 1.4401 is an austenitic stainless chromium-nickel-molybdenum steel. Due to the addition of 2 to 2.5% molybdenum the corrosion resistance from 1.4401 compared to standard austenitic grades 1.4301 and 1.4307 is much better.

1.4401 is well suited for machining! Due to the molybdenum content 1.4401 has a good resistance in chloride-containing media and non-oxidizing acids. But 1.4401\* in welded condition is not resistant to intergranular corrosion! Best corrosion resistance is achieved with polished surface.

**It is mainly used in the chemical industry, food industry, petroleum industry, petrochemical industry, engineering, for decorative applications and kitchen utensils.**

**Characteristics:**

- Weldability:** medium\*
- Machinability:** 6 (1 = bad - 10 = good)
- Polishing:** yes
- Corrosion class:** 4 (0 = weak - 5 = good)

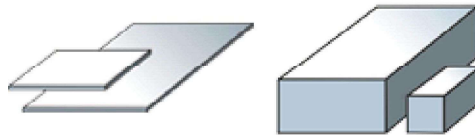
**Chemical composition:**

1.4401 X2CrNiMo17-12-2	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.						16,5	2,2	10,0	
max.	0,07	1,0	2,0	0,045	0,015	18,5	2,5	13,0	

1.4401 X2CrNiMo17-12-2	Al	Cu	N	Nb	Ti	Sonstiges
min.						
max.			0,11			

**From stock:**

Plates, rolled  
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.

Notice: Specifications contained in following data sheet are provided as a description, liability is excluded!