

1.4057 (X17CrNi16-2)

1.4057 (X17CrNi16-2) directly from stock & cut to your required dimensions

International term: AISI431 / BS431S29 / SIS2321 / GOST14Ch172N / SUS431 / WL4044 / SS2321

Application field: 1.4057 is a corrosion and acid resistant martensitic chromium steel with nickel additive. The formation of chromium carbides and the associated chromium-depleted areas makes this material susceptible to intergranular corrosion.

Main application in mechanical engineering, petroleum and petrochemical industry and aviation.

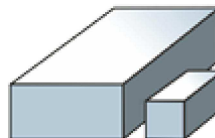
Characteristics:

- Weldability:** good
- Machinability:** 5 (1 = very bad - 10 = good)
- Polishability:** yes
- Corrosion class:** 2 (0 = weak - 5 = good)

Chemical composition:

1.4057 X17CrNi16-2	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.	0,12					15,0		1,5	
max.	0,22	1,0	1,5	0,04	0,02	17,0		2,5	

From stock: flat, forged, quenched and tempered



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.
