

1.4034 (X46Cr13) soft annealed

1.4034 (X46Cr13) directly from stock & cut to your required dimensions!

International term: AISI 420

Application field: 1.4034 can be hardened up high, higher than 1.4031 due to its higher carbon content. Use for cutting tools in the food industry and surgical instruments. Resistant in moderately aggressive media. Optimal corrosion resistance in hardened condition with polished surface.

Engineering, cutlery industry, medical and pharmaceutical industry.

Characteristics: **Weldability:** bad

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

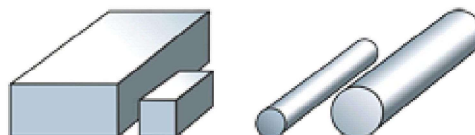
Polishability: yes

Corrosion class: 1 (0 = weak - 5 = good)

Chemical composition:

1.4034 X46Cr13	C	Si	Mn	P	S	Cr	Mo	Ni	V
min.	0,43					12,5			
max.	0,50					14,5			

From stock: flat, forged, soft annealed
round, forged, soft annealed



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.