



1.4112 (X90CrMoV18) soft annealed

1.4112 (X90CrMoV18) directly from stock & cut to your required dimensions!

International term:

AISI 440B

Application field:

Special steel with high hardness, wear resistance and good edge retention, due to the higher carbon content at the expense of corrosion resistance!

Knives, surgical cutting tools, mold inserts and active elements in the plastics processing industry, even in chemically aggressive molding compounds. Shape- and flat-knives in the food industry, for example for frozen goods, beef and pork splitting blades, perforated discs and other accessories, for meat grinders, shaped knives for fish processing. Devices in tooling, workpiece support and clamping devices in the automotive industry.

Characteristics:

Weldability: no

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

Polishability: yes

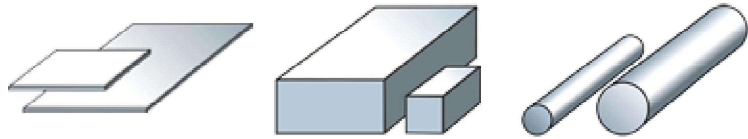
Corrosion class: 2 (0 = weak - 5 = good)

Chemical composition:

| 1.4112 X90CrMoV18 | C | Si | Mn | P | S | Cr | Mo | Ni | V |
|----------------------|------|-----|-----|---|---|------|-----|----|------|
| min. | 0,85 | bis | bis | | | 17,0 | 0,9 | | 0,07 |
| max. | 0,95 | 1,0 | 1,0 | | | 19,0 | 1,3 | | 0,12 |

From stock:

flat, forged, soft annealed
flat, rolled, soft annealed
plate, rolled, 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.
