

1.4112 / X90CrMoV18 / AISI 440B — Corrosion resistant, martensitic

Summary

The material grade 1.4112 is a rust and acid resistant, martensitic chrome steel.

Chemical Analysis

	C	Si	Mn	P	S	Cr	Mo	V
min.	0,85	-	-	-	-	17,0	0,9	0,07
max.	0,95	1,00	1,00	0,04	0,015	19,0	1,3	0,12

Properties

1.4112 is characterized by good mechanical properties. Particularly in this material is the exceptionally high wear resistance. The polishability is also to be considered positive. However, the material 1.4112 has a very poor weldability.

Application Areas

Due to the mechanical properties, especially the high wear resistance, 1.4112 is mainly used in the cutlery industry. 1.4112 is also used in the medical industry and in mechanical engineering.

Use

From the material 1.4112 is mainly produce machine knives, perforated discs, gears, ball bearings, cutting, surgical instruments.

International designation

DIN EN 10088	1.4112 X90CrMoV18
Aisi	AISI 440 B
UNS	S44003
AFNOR	X90CrMoV18
SS	X90CrMoV18
UNE	X90CrMoV18
B.S.	X90CrMoV18

Mech. Properties at
Room temperature (forged and
Flat)

Hardness

max. 265 HB

Mech. Properties at
Room temperature (sheet metal)

Hardness

max. 299 HB

Special Features

We stock the material 1.4112 soft annealed in a particularly excellent quality.

The material is sourced exclusively from the EU. Our 1.4112 is 100% US approved. The forging ratio is min. 3.5

Delivery options

We can saw the material to your required dimensions.

Request/questions

Do you have a request, or have a question about the material 1.4112?

Contact us! Our competent staff will gladly help you.

Stahlhandel Gröditz GmbH

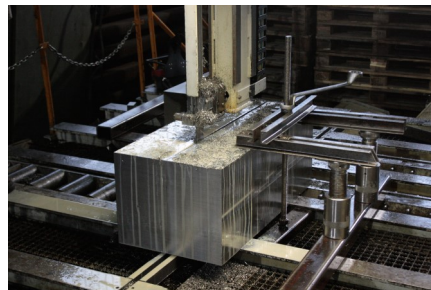
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