

HARDOX[®] Extreme

Special data sheet

ABRASION RESISTANT PLATE

HARDOX Extreme is an abrasion resistant plate with a typical hardness of 650-700 HBW, intended for applications requiring an extremely high abrasion resistance.

Values in brackets are in imperial units for information only.

Applications

Liners, cutters, feeders, chutes, shredders, hammers, knives etc.

Chemical Composition

(ladle analysis)

Plate thickness mm	C max %	Si max %	Mn max %	P max %	S max %	Cr max %	Ni max %	Mo max %	B max %	CEV typical value	CET typical value
8-25 (0.394 - 0.984")	0.47	0.7	1.00	0.015	0.010	1.2	2.5	0.8	0.004	0.84	0.59

$$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$$

$$CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40}$$

The steel is grain refined.

Hardness

Typical hardness

Plate thickness	HBW
10 mm (0.394")	700
25 mm (0.984")	650

Testing

Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0,5-2 mm (0.020 - 0.079") below plate surface per heat and 40 metric tons. The nominal thickness will not deviate more than 5 mm (0.197") from that of the tested plate.

Delivery Conditions

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Dimensions

HARDOX Extreme is supplied in plate thicknesses of 8-25 mm (0.394 - 0.984"). More detailed information on dimensions is provided in our brochure 41-General product information WELDOX, HARDOX, ARMOX and TOOLOX-UK as well as on www.hardox.com.

Tolerances

Thickness tolerances according to SSAB Oxelösund thickness precision guarantee AccuRollTech™.
 - AccuRollTech™ meets the requirements of EN 10 029, but offers more narrow tolerances.
 More detailed information is given in our brochure 41-General product information WELDOX, HARDOX, ARMOX and TOOLOX-UK.

According to EN 10 029:

- Tolerances on shape, length and width.
- No guarantees on flatness. The plate has not been levelled.

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Surface Properties

According to EN 10 163-2, Class A. Subclass 3 (repair welding is not allowed).

General Technical Delivery Requirement

According to our brochure 41-General product information WELDOX, HARDOX, ARMOX and TOOLOX-UK.

Heat Treatment and Fabrication

HARDOX Extreme has obtained its mechanical properties by a quenching process.
HARDOX Extreme is not suited for applications requiring hot working at temperatures above 100° C (212° F) since the material may then lose its guaranteed properties.

For information concerning welding and fabrication, consult our Technical Customer Service.

Appropriate health and safety precautions must be taken when working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration.
