

Hardox Extreme

Page.1 (2)

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.

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

Chemical Composition

(ladle analysis)

Plate thickness mm	C	Si	Mn	P	S	Cr	Ni	Mo	B	CEV typical value	CET typical value
8-25	max 0,47	max 0,7	max 1,00	max 0,015	max 0,010	max 1,2	max 2,5	max 0,8	max 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	700
25 mm	650

Testing

Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0,5-3 mm below plate surface per heat and 40 tons. The nominal thickness will not deviate more than 5 mm from that of the tested plate.

Delivery Conditions

Q.

Dimensions

HARDOX Extreme is supplied in plate thicknesses of 8-25 mm. More detailed information on dimensions is provided in our brochure 41-General product information Weldox, Hardox, Armax 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, Armax and Toolox-UK.

According to EN 10 029:

- Tolerances on shape, length and width.

- No guarantees on flatness. The plate has not been levelled.

Hardox Extreme

Page. 2 (2)

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	<p>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 since the material may then lose its guaranteed properties.</p> <p>For information concerning welding and fabrication, consult our Technical Customer Service.</p> <p>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.</p>