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# Hardox 500

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### ABRASION RESISTANT PLATE

Hardox 500 is an abrasion resistant plate with a hardness of 500 HBW, intended for applications where demands are imposed on abrasion resistance.

Applications	Crushers, sieves, feeders, measuring pockets, skips, cutting edges, conveyors, buckets, knives, gears, sprockets, etc.
Chemical Composition (ladle analysis)	Plate C Si Mn P S Cr Ni Mo B CEV CET thickness max
	The steel is grain refined.
Hardness	HBW 4 - 32 mm 470 - 530 (32) - 80 mm 450 - 540
Impact Properties Typical values for 20 mm plate thickness	Test Impact energy temperature Charpy-V, longitudinal °C J -40 (-40 F) 30
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. Tests are made for every variation of 15 mm in the thickness of plates from the same heat.
Delivery Conditions	Q.
Dimensions	Hardox 500 is supplied in plate thicknesses of 4 -80 mm. More detailed information on dimensions is provided in our brochure 41-General product information Weldox, Hardox, Armox and Toolox-UK.





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#### Tolerances

Thickness tolerances according to SSAB Oxelösund thickness precision guarantee  $AccuRollTech^{TM}$ . -  $AccuRollTech^{TM}$  meets the requirements of EN 10 029 Class A, 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.
- Tolerances on flatness according to Class N (Normal tolerances).

According to EN 10 163-2

- Requirements according to Class A.
- Repair conditions according to Subclass 1.

(Repair welding is allowed)

### General Technical Delivery Requirement

According to our brochure 41-General product information Weldox, Hardox, Armox and Toolox-UK.

## Heat Treatment and Fabrication

Hardox 500 has obtained its mechanical properties by quenching and when necessary by means of subsequent tempering. The properties of the delivery conditon can not be retained after exposure to service or preheating temperatures in excess of  $250^{\circ}$ C ( $480^{\circ}$ F). Hardox 500 is not intended for further heat treatment.

For information concerning welding and fabrication, see our brochures on www.hardox.com or consult our Technical Customer Service.

Appropriate health and saftey precautions must be taken when welding, cutting, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration. Our Technical Customer Service Department will provide further information on request.

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