

# HARDOX® 600

## Data sheet

### ABRASION RESISTANT PLATE

HARDOX 600 is an abrasion resistant plate with a hardness of 600 HBW, intended for applications requiring an extremely high abrasion resistance.

#### Applications

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

#### Chemical Composition

(ladle analysis)

Plate thickness	C	Si	Mn	P	S	Cr	Ni	Mo	B	CEV typv.	CET typv.
inch	max	max	max	max	max	max	max	max	max		
$\frac{5}{16}$ – $1\frac{3}{16}$	0,45	0,7	1,00	0,015	0,010	1,2	2,5	0,8	0,004	0,73	0,55
$(1\frac{3}{16})-2$	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

HBW  
570 - 640

#### Impact Properties

Typical value for  
 $\frac{3}{4}$  inch plate thickness

Testing temperature	Impact energy
°F	Charpy-V, longitudinal
-40 (-40°C)	Ft-lbs (J)
	15 (20)

#### Testing

Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0.02-0.08 inch below plate surface per heat and 40 metric tons. Tests are made for every variation of  $\frac{5}{8}$  inch in the thickness of plates from the same heat.

#### Delivery Conditions

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#### Dimensions

HARDOX 600 is supplied in plate thicknesses of  $\frac{5}{16}$ -2 inch. More detailed information on dimensions is provided in our brochure 41-UK-General Product Information WELDOX, HARDOX and ARMOX.

#### Tolerances

Thickness tolerances according to SSAB Oxelösund thickness precision guarantee AccuRollTech™, Class B. - AccuRollTech™ Class B meets the requirements of ASTM A6 but offers a more narrow tolerance width. More detailed information is given in our brochure 41-UK-General Product Information WELDOX, HARDOX and ARMOX.

Flatness tolerances according to SSAB Oxelösund internal requirements, Class N. The SSAB Oxelösund requirements for Class N meet the flatness requirements of ASTM A6 but will be at least twice as close.

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### Surface Properties

According to ASTM A6.

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### General Technical Delivery Requirement

According to our brochure 41-UK-General Product Information WELDOX, HARDOX and ARMOX.

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### Heat Treatment and Fabrication

HARDOX 600 has obtained its mechanical properties by quenching and when necessary by means of subsequent tempering. The properties of the delivery condition can not be retained after exposed to service or preheating temperatures in excess of 480°F (250°C). HARDOX 600 is not intended for further heat treatment.

For information concerning welding and fabrication, see our brochures on [www.hardox.com](http://www.hardox.com) or consult our Technical Customer Service.

Appropriate health and safety 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.