

DATA SHEET: Version 2011-10-28



WEAR RESISTANT PLATE

Hardox 450 is an abrasion resistant plate with a hardness of 450 HV, intended for applications where demands are imposed on abrasion resistance in combination with good cold forming properties. Hardox 450 offers very good weldability.

Applications	Agriculture machines, cement mixers, containers, flatbed trucks, truck bodies, slurry tubes, refuse vehicles, transport tubes for grain, mining fans, mining conveyours, etc.											
Chemical Composition (ladle analysis)	%	nax max	%	max %	%	Cr max % 0,10	Ni max % 0,10	Mo max % 0,04	B max % 0,003	Ti max % 0,050	CEV typv. 0,39	CET typv. 0,31
	$CEV = C + \frac{Mn}{6}$ $CET = C + \frac{Mn + 1}{10}$ The steel is grain	<u>- Mo</u> + -										
Hardness Typical	HV5 425-475											
Mechanical Properties	Yield strength R _e typical MPa 1300	Ter R _m MF min 140	n m	ength nax 500		Elongo A ₈₀ typ %						
Testing	Vickers hardness test is used according to EN ISO 6507-1.											
Delivery Conditions	Q + T											
Surface Conditions	Hardox 450 (0,70 - 2,10 mm) is supplied as cold rolled surface.											
Dimensions	Hardox 450 according to this data sheet is supplied in thicknesses of 0,70 - 2,10 mm. The supplied width is 800 - 1500 mm and length 1000 - 8000 mm.											
Tolerances	More detailed information on dimensions is provided in the dimension program (www.hardox.com). Tolerances for thicknesses are according to EN 10 131, more narrow tolerances according to SSAB standard also availble.											





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Surface Properties	For thickness range 0,70 – 2,10mm the surface condition is according to EN 10130. – Normal and semi bright. – Oiled. – Not painted.				
Bending	Min radius 4xt for 90° bend.				
General Technical Delivery Requirement	You find further information on the website: www.hardox.com.				
Heat Treatment and Fabrication	Hardox 450 (0,70 – 2,10 mm) has obtained its mechanical properties by quenching and tempering. The properties of the delivery condition can not be retained after exposure to service or preheating tempera- tures in excess of 200°C (390 F). Hardox 450 (0,70 – 2,10 mm) 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 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.

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www.hardox.com