

DATA SHEET: Version 2010-02-01

Hardox HiTuf

Page. 1 (2)

ABRASION RESISTANT PLATE

Hardox HiTuf is an abrasion resistant plate with an extremely high crack resistance. Hardox HiTuf has a hardness of 350 HBW and is intended for applications with extra high demands on the combination of toughness and abrasion resistance.

Applications	Cutting edges, demolition tools and rippers.			
Chemical Composition (ladle analysis)	Plate C Si Mn P S Cr Ni Mo V Nb B CEV CET thickness max			
	$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Cu + Ni}{15}$ $CET = C + \frac{Mn + Mo}{10} + \frac{Cr + Cu}{20} + \frac{Ni}{40}$ The steel is grain refined.			
Hardness	HBW 310-370			
Mechanical Properties Typical values	Plate Yield strength Tensile strength Elongation thickness $R_{p0.2}$ R_m A_{s0} inch KSI KSI KSI KSI W $11/2-23/4$ 138 143 18 $(23/4)-43/4$ 124 130 18			
mpact Properties Typical values	Plate Testing Impact energy thickness temperature Charpy-V, longitudinal inch °F Ft-lbs (J) 11/2-23/4 -40 (-40°C) 70 95 (23/4) -43/4 -40 (-40°C) 52 70			
Testing	Brinell hardness, HBW according to EN ISO 6506-1, on a milled surface 0.02-0.12 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	Q.			
Dimensions	Hardox HiTuf is supplied in plate thicknesses of $1\frac{1}{2}$ - $4\frac{3}{4}$ inch. More detailed information on dimensions is			

provided in our brochure 41-General product information Weldox, Hardox, Armox and Toolox-UK.





DATA SHEET: Version 2010-02-01

Hardox HiTuf

Page. 1 (2)

Tal	arc	ince	20

Thickness tolerance according to SSAB Oxelösund thickness precision guarante AccuRollTech $^{\text{TM}}$, Class B. - AccuRollTech $^{\text{TM}}$ Class B meets the requirements of ASTM A6 but offers a more narrow tolerance width. More detailed information is given in our brochure 41-General product information Weldox, Hardox, Armox and Toolox-UK.

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.

Surface Properties General Technical Delivery Requirement

According to ASTM A6

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

Heat Treatment and Fabrication

Hardox HiTuf has obtained its mechanical properties by quenching and tempering. The properties of the delivery conditon can not be retained after tempering above $840^{\circ}F$ ($450^{\circ}C$). Hardox HiTuf can be subjected to tempering up to $840^{\circ}F$ ($450^{\circ}C$).

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.

170-US, Hardox is a registered trademark of SSAB Oxelösund AB, Sweden. The UK English version of this document shall prevail in case of discrepancy. Download the latest version of this document on internet: www.ssab.com

SSAB Oxelösund AB, 613 80 Oxelösund, Sweden, +46 155 25 40 00, www.ssab.com

