

**HARDOX®**  
WEAR PLATE

# THE NEW GENERATION HARDOX® WEAR PLATE

 LIGHTER TIPPER  
BODIES

 HIGHER LOAD  
CAPACITY

 EXTENDED  
SERVICE LIFE

 REDUCED FUEL  
CONSUMPTION



[hardox.com](http://hardox.com)

**SSAB**

# HARDOX® 500 TUF DELIVERS HIGH STRENGTH, EXTREME HARDNESS AND GUARANTEED TOUGHNESS IN A SINGLE WEAR PLATE

Hardox® 500 Tuf combines the best properties from the Hardox® 450 and Hardox® 500 grades. The result is a wear plate with no real competition on the market.

It has the toughness necessary to perform as a structural material in heavy-duty tipper bodies, containers and buckets. It also works in freezing conditions as the impact energy values indicate.

Superior wear and dent resistance gives extended service life and the ability to endure heavy impact.

Typical working conditions include loading and unloading of heavy and sharp rocks in quarries and mines, handling large and heavy steel scrap, and in demolition when pieces of concrete with rebar are loaded or dropped into tippers.

Hardox® 500 Tuf has a guaranteed impact energy of 27 J at -20°C (20 ft-lb at -4 °F), and a typical value of 50 J at -40 °C (37 ft-lb at -40 °F). It has an unusually narrow Brinell hardness window of 475-505 HBW.

The estimated relative service life for Hardox® 500 Tuf is 85-100% longer than for Hardox® 400 according to Hardox® WearCalc.\*

## WORKSHOP-FRIENDLY

Hardox® 500 Tuf can be processed by the same kind of machinery used for other Hardox® grades. Bendability recommendations are similar to those for Hardox® 450.

\* The calculations are based on sliding wear with granite.

HARDOX® 500 TUF						
Product	Hardness nominal HBW	Impact toughness CVT guaranteed J (ft-lb)	Impact toughness CVL typical J at -40 °C (ft-lb at -40 °F)	Relative service life interval (relative to Hardox® 400)	CEV/CET typical	Thickness range mm (inches)
Hardox® 500 Tuf wear plate	490	27 (20) at -20 °C (-4 °F) for 20 mm (0.787")	50 (37) for 20 mm (0.787")	1.3-2.1	0.53/0.37 for 20 mm (0.787")	4-38.1 (0.157-1.5)
Hardox® 500 Tuf wear sheet	490	27 (20) at -40 °C (-40 °F)	50 (37)	1.3-2.1	0.52/0.35	3-6.5 (0.118-0.256)

Hardox® 500 Tuf wear plate																									
Width	1000-	1351-	1500-	1601-	1701-	1801-	1901-	2001-	2101-	2201-	2301-	2401-	2501-	2601-	2701-	2801-	2901-	3001-	3101-	3201-	3301-				
Thickness	1350	1499	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3350				
4.0-4.7																									
4.8-5.7																									
5.8-6.7																									
6.8-7.7																									
7.8-8.7																									
8.8-10.0																									
10.1-24.0																									
24.1-25.0																									
25.1-26.0																									
26.1-27.0	14000																				14200	14400			
27.1-28.0	13400																				14200	13700	13800		
28.1-29.0	13000																				14100	13700	13300	12900	
29.1-30.0	12500																				14100	13600	13200	12800	12400
30.1-31.0	12100																				14100	13600	13200	12800	12400
31.1-32.0	11800																				14200	13700	13200	12800	12400
32.1-33.0	11400																				14200	13700	13300	12900	12400
33.1-34.0	11100																				14400	13800	13300	12900	12400
34.1-35.0	10700																				13900	13400	12900	12500	12100
35.1-36.0	10400																				14100	13600	13100	12600	12200
36.1-37.0	10200																				14300	13700	13200	12700	12200
37.1-38.1	9900																				13900	13400	12800	12400	11900

Hardox® 500 Tuf wear sheet												
Width	950-	1001-	1201-	1251-	1301-	1501-	1526-	1551-	1576-	1601-	1626-	
Thickness	1000	1200	1250	1300	1500	1525	1550	1575	1600	1625	1650	
3.00-3.09												
3.10-3.19												
3.20-3.99												
4.00-4.49												
4.50-4.79												
4.80-4.99												
5.00-5.99												
6.00-6.40												
6.41-6.50												

- Outside the range of dimensions
- Some restrictions, contact your local sales representative for information

The data in these tables may be subject to change without notice. Please download the latest version of the respective Hardox® wear plate product data sheet at [www.ssab.com](http://www.ssab.com).

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