

HARDOX®
WEAR PLATE

THE NEW GENERATION HARDOX® WEAR PLATE



LIGHTER BUCKETS



LESS WEAR PACKAGES



EXTENDED SERVICE LIFE



TOUGH IN THE COLD



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SSAB

THE BEAST HAS DONE IT AGAIN

Hardox® 500 Tuf is the latest upgrade in the Hardox® range. It delivers high strength, extreme hardness and guaranteed toughness in one and the same 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's perfectly suited for hard-working buckets of all sizes and shapes.

With Hardox® 500 Tuf the bucket will last longer and becomes lighter, since it needs less wear packages and wear bars. It also works in freezing conditions as the impact energy values indicate.

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 45 J at -40°C (33 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 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 at -20 °C (ft-lb at -4 °F)	Impact toughness CVL typical J at -40 °C (ft-lb at -40 °F)	Relative service life interval (relative to Hardox® 400)	CEV/CET	Thickness range mm (inches)
Hardox® 500 Tuf wear plate	490	27 J (20 ft-lb) for 20 mm (0.787")	45 J (33 ft-lb) for 20 mm (0.787")	1.3–2.1	0.53/0.37 for 20 mm (0.787")	4–25.4 mm (0.157–1")
Hardox® 500 Tuf wear sheet	490		45 J (33 ft-lb)	1.3–2.1	0.40/0.30	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
3.0–3.7																					
3.8–4.7																					
4.8–5.7																					
5.8–6.7																					
6.8–7.7																					
7.8–8.7																					
8.8–10.0																					
10.1–24.0																					
24.1–25.4																					
25.5–26																					

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	
2.50–2.99												
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												

Some restrictions, contact your local sales representative for information

Outside the range of dimensions

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.