

HARDOX®
WEAR PLATE

INTRODUCING HARDOX® HiACE FOR ACID ENVIRONMENTS



Explore the social
world of Hardox®



hardox.com

SSAB

THE NEW ACE MADE OF HARDOX® WEAR PLATE

Hardox® wear plate continues to take up the battle against wear in tough environments. Hardox® now welcomes a new steel to the product range that fights wear in acidic corrosive environments: Hardox® HiAce.

Thanks to environmental awareness around the globe, we now have more responsible ways of using energy resources and recycled material from waste separation. But it also means a tougher environment for equipment in many industries. To meet this challenge, the Hardox® range now includes Hardox® HiAce – a true wear-fighter even when under attack from acid in corrosive environments.

Hardox® HiAce offers the same excellent properties as Hardox® 450, with an extra feature: it can meet the challenges of corrosive wear environments found in municipal and industrial waste management, waste-to-energy plants, in mining and in other industries with acidic environments.

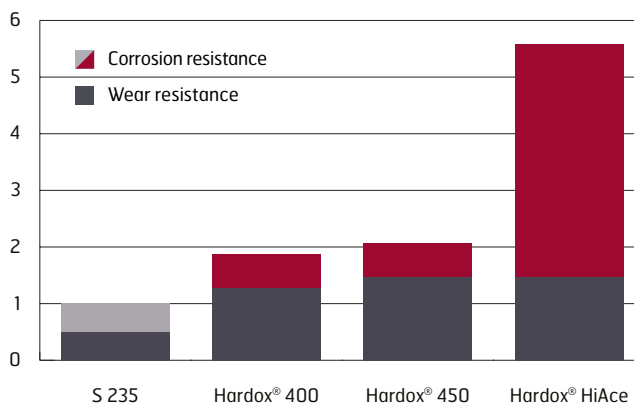
When the pH level goes down different wear mechanisms kick in, and harder steels won't necessarily provide a longer equipment service life. Hardox® HiAce performs the same as 450 HBW steel in a regular wear environment, but at lower pH levels, it can extend service life up to 3 times compared with 400 HBW steel.

Hardox® HiAce has the toughness it takes to perform as a structural material in garbage trucks, recycling containers,

tipper and dump bodies, and other heavy-duty products. It also delivers outstanding performance in freezing conditions.

Hardox® HiAce has a guaranteed impact energy of 27J at -20 °C (20 ft-lb at -4°F). It is available in thicknesses of 4-25.4 mm (5/32-1 in.) according to the dimension program below. Hardox® HiAce can be processed by the same kind of machinery used for other Hardox® grades. The bendability is the same as for Hardox® 450.

Relative service life in a corrosive environment



Hardox® HiAce																					
Hardness nominal HBW		Impact toughness CVT guaranteed J at -20°C (ft-lb at -4°F)						Service life in acid environment subjected to wear (relative to 400 HBW steel)					CEV/CET typical for 20 mm (¾")				Thickness range mm (inches)				
425-475		27 J (20 ft-lb)						up to 3 times					0.99/0.38				4.0-25.4 (5/32-1")				
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																					
24.1-25.4																					

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