

HARDOX[®]
WEAR PLATE

CRUSH EVERY WEAR CHALLENGE WITH HARDOX[®] 600

The wear steel for high-performing wear parts, offering exceptionally high toughness for such a hard steel

3.5

TIMES LONGER SERVICE LIFE

Hardox[®] 600 wear steel delivers a service life 3.5 times longer than an ordinary AR 400 steel.



SSAB

PREDICTABLE SERVICE LIFE LEADS TO INCREASED PRODUCTIVITY

Hardox® 600 adds valuable service life to your equipment, particularly in extreme wear conditions.

With a nominal hardness of 600 HBW, it still has a relatively high impact toughness compared to chromium white iron. Hardox® 600 is through-hardened for predictable operation with long maintenance intervals.

HARDOX® 600		
Product	Thickness range, mm	Nominal hardness, HBW
Hardox® 600 sheet	3.0-6.0	600
Hardox® 600 plate	6.0-65.0	600

SAVE UP TO \$26.60/DAY

HARDOX® 600 HAS MANY TIMES PROVEN TO BE A COST-EFFICIENT SOLUTION

A Total Cost of Operation (TCO) analysis on a chute lined with 32 liner plates 480 x 480 x 50 mm (19 x 19 x 2") showed substantial improvements in service life and costs per day relative to other AR steels.

AT HOME IN THE WORKSHOP

Thanks to its workshop-friendly properties, Hardox® 600 can be cut and machined with standard workshop methods and is weldable without preheating using stainless consumables.

IMPROVING SUSTAINABILITY

Whatever the application, introducing Hardox® 600 in your equipment has sustainability benefits since it uses less steel and energy over time. With Hardox® 600 you can benefit from thinner yet highly efficient wear liner packages at an overall lower weight, which increases safety in maintenance and installation. As liner plates in chutes and hoppers, Hardox® 600 results in reduced maintenance costs and fewer replacements.



Scan the QR code to download the Hardox® 600 data sheet.

HARDOX® 600 OUTPERFORMS OTHER MATERIALS

Chromium white iron
Brittle, higher relative cost.

Manganese castings
Moderate wear resistance and poor workshop properties.

Bimetals
Higher relative cost.

Ceramics
Brittle, most expensive alternative.

TOTAL COST OF OPERATION			
Parameters	AR400	AR500	Hardox® 600
Hardness	400 HB	500 HB	600 HB
Material price	2000	3800	5000
Preheating costs	NA	200	300
Cutting costs	400	400	400
Drilling costs	800	1000	1700
Transport cost	300	300	300
Installing	1100	1100	1100
Total cost per set	5600	7400	10300
Service life*	1.0	1.77	3.5
Lifetime in days*	100	177	350
Total costs/life days*	\$56/day	\$41.8/day	\$29.4/day

* The service life, lifetime, and costs are relative differences and not absolute values, and are based on real-life circumstances.

AVAILABLE WORLDWIDE

Hardox® 600 wear steel is available as plate and sheet with thicknesses from 3 to 65 mm (0.118 to 2.559") through SSAB sales offices all over the world.

READY FOR THE TOUGHEST INDUSTRIES

Mining and quarrying

Wear liners, chute liners, conveyor skirt boards, screens, silos, pan feeder liners, and more.

Cement and concrete production

Crusher knives, hammers, discs, blades, jaw crusher cheek plates, liner plates, deflector plates, shredder knives, cone crushers, ball mill liners, concrete molds, vertical and horizontal shaft impactor discs and liners.

Recycling and industrial processing

Chutes, hopper liners, vertical rolling mill liners, feeder liners and screens, baffle plates, split scrapers, and guide vanes.



CRUSHERS



CHUTES



GRANULATOR KNIVES



SHREDDERS



BUFFER BINS



PRISMATIC KNIVES



MILLS



FLOOR LINERS



MOLDS



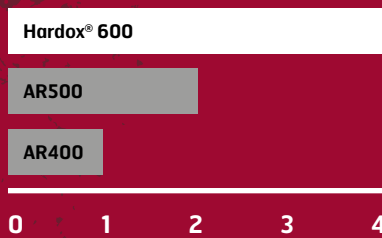
LINERS IN HARDOX® 600 MEET LKAB'S NEEDS

As a major iron ore and mineral mining company in the Nordics, LKAB can't afford any loss in productivity. Unscheduled downtime can severely impact throughput and, in turn, financial performance. When LKAB started to experience too many unplanned shutdowns – and unwanted associated costs – they turned to Hardox® 600 from SSAB.

“What we were looking for was a material which could maintain a uniform quality over a long service life. Hardox® 600 has proved it can meet all our strictest requirements,” says Evert Nilfors from LKAB in Norway.

CALCULATE YOUR SERVICE LIFE GAINS

Hardox® WearCalc is a tool that easily shows the service life increase from Hardox® 600 compared to other wear steel grades. This app is free to use and available both for desktop and mobile. Hardox® WearCalc can present results based on type of abrasive material, sliding, impact and erosive wear, and type of equipment.



Relative service life for Hardox® 600 compared to AR400 and AR500 wear steel calculated with Hardox® WearCalc for sliding wear and granite.

GET HARDOX® WEARCALC APP

APP STORE



GOOGLE PLAY



HOW TO MAKE THE MOST OUT OF HARDOX® 600

Get the assistance, answers, and advice you need from our experienced tech support team. They provide personal support on site or via telephone, in English or in your local language.



Scan the QR code to contact Tech Support.

SSAB is a Nordic and US-based steel company that builds a stronger, lighter and more sustainable world through value added steel products and services. Working with our partners, SSAB has developed SSAB Fossil-free™ steel and plans to reinvent the value chain from the mine to the end customer, largely eliminating carbon dioxide emissions from our own operations. SSAB Zero™, a largely carbon emission-free steel based on recycled steel, further strengthens SSAB's leadership position and our comprehensive, sustainable offering independent of the raw material. SSAB has employees in over 50 countries and production facilities in Sweden, Finland and the US. SSAB is listed on Nasdaq Stockholm and has a secondary listing on Nasdaq Helsinki. Join us on our journey!

www.ssab.com

Explore the world of Hardox® wear plate



SSAB
SE-613 80 Oxelösund
Sweden

T +46 155 25 40 00
F +46 155 25 40 73
contact@ssab.com

hardox.com

Hardox® is a trademark of the SSAB group of companies. The information contained in this brochure is provided only as general information. SSAB AB accepts no responsibility for the suitability or appropriateness of any application. It is the user's responsibility to independently determine suitability of all products, and or applications, and to test and verify the same. The information provided by SSAB AB hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is with the user. Copyright © 2023 SSAB AB. All rights reserved.