Your choice of wear plate has consequences. For your business, Hardox® maximizes the wear performance of your equipment and machines, reducing work shop lead times and increasing the overall productivity of your operations.

Thanks to its consistent properties, Hardox® performance remains invaluable across its lifetime. This also makes your wear life very predictable, allowing you to optimize your repair schedules.

What’s the secret of Hardox’s top performance? The production processes include the state-of-the-art metallurgical cleaning of steel and a unique hardening process, resulting in wear plates with outstanding hardness, toughness and workshop friendliness.

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Expertise at your service

In addition to plates, SSAB provides you with expertise. We share our knowledge with you through our Technical Support functions.

The Technical Support consists of experts that can help optimize your product from a design perspective and are committed to developing the technical knowledge of wear. We offer you access to Ph.Ds and experts with decades of experience in solving wear challenges. You can ask for support and information on wear-critical components.

Information about wear

Wear comes in different forms and each has a different impact on the service life of your application.

The most common wear types are sliding wear and impact wear. Abrasive particles, trapped in a service gap between two rigid surfaces causing squeezing wear is also a common wear type.

Each variety of rock is composed of a unique set of minerals and these also contribute to the specific type of abrasive wear damage.

WearCalc software, available from our Technical Managers, describes and calculates the relative differences between materials. It allows you to predict relative wear life and compare different wear solutions.

Whatever your application and wear situation, Hardox is your ticket to outstanding wear performance.

There are three types of wear: sliding, impact and squeezing. Each type has a different impact on the service life of your application.

- Sliding wear: Abrasive bodies such as aggregate rocks are free to slide and roll. By selecting a harder Hardox grade, service life can be improved considerably.

- Impact wear: The aggregate rocks hit the surface of the wear component at various angles. A harder grade of Hardox will deliver a longer service life here as well.

- Squeezing wear: With squeezing wear, the improvement in service life of wear components is more difficult to quantify. However, an increased Hardox plate hardness often improves the service life significantly.

Hardox – Complete product program

SSAB offers products that cover a wide range of hardness grades, thicknesses and widths to ensure that you’ll always be able to maximize your application’s performance.

- Hardox® 400 and 450 are versatile wear plates with high toughness, good durability and excellent weldability.
- Hardox® 500 is a tough, bendable and weldable abrasion resistant plate used in applications requiring high resistance.
- Hardox® 550, with a hardness of 550 Brinell and a toughness equal to Hardox 500, is designed to increase wear life before the exposure of reduced resistance to cracking.
- Hardox® 600 has a hardness of 600 Brinell but can still be cut and welded—an excellent plate for high performance applications.
- Hardox® HiTuf is a wear resistant plate with extra high toughness intended for heavy section wear parts requiring extraordinary wear and crack resistance.
- Hardox® Extreme is intended for applications requiring extremely high dynamic resistance. In its regular form it is a tough, bendable, weldable wear product. With hard-faced overlay plates and high chrome white iron. Despite its toughness, it can be worked cut, milled and drilled using standard workshop practices.

SSAB is a Nordic and US-based steel company. SSAB offers value-added products and services in development, close cooperation with its customers to meet the growing demands on customized steel. SSAB has employees in over 50 countries. SSAB has production facilities in Sweden and the US. SSAB is listed on the NASDAQ OMX Nordic Exchange/Shutterstock and has a secondary listing on the NASDAQ OMX in Helsinki. www.ssab.com.

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Breaking the ground for roadbuilding makes tough demands on machines and materials...