New Hardox HiTemp wear plate meets an important challenge: Standing up to abrasive conditions in high heat environments.

The high temperature performance of Hardox HiTemp is achieved by using high-quality raw material in combination with a carefully controlled manufacturing process.

Hardox HiTemp can be cut, welded, machined and cold formed using the same kind of workshop machinery and technology as other Hardox grades and conventional steel.

All this adds up to making Hardox HiTemp an ideal choice for high-temperature wear applications in many areas—particularly in process industries such as steel, cement and coal power plants, and recycling and asphalt industries.

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HARDOX® HITEMP—THE CHOICE FOR WEAR RESISTANCE IN HOT ENVIRONMENTS

Hardox® HiTemp is a quenched and tempered martensitic wear plate with a typical hardness of 375 Brinell. It’s a welcome addition to the Hardox® wear plate family, addressing a temperature span that so far has been out of reach for other Hardox® grades.

SSAB has previously recommended Toolox® engineering and tool steel to tackle wear at higher temperatures, 300–500°C (572–932°F). Toolox is well recognized in the tooling industries for its combination of hardness, toughness and machinability. Toolox has high wear resistance, and can retain its hardness and form stability at elevated temperatures.

Hardox® HiTemp is the result of applied expertise in metallurgy and processing techniques, combining Toolox and Hardox® properties in a steel able to resist wear and temperature.

EASY TO WORK WITH

Thanks to its high toughness, good bendability and weldability, Hardox® HiTemp can be used for structures in high heat applications with moderate wear. As for all Hardox® grades, Hardox® HiTemp can be welded and cold formed with conventional methods.

Since Hardox® HiTemp has a low carbon equivalent it can be thermally cut without pre-heating within the whole dimension range. The low carbon equivalent also makes Hardox® HiTemp suitable when a large amount of welding is needed.

The workshop-friendly properties of Hardox® HiTemp allow for easy and fast installation compared to other materials, such as ceramics that are common in high-temperature environments.

Another benefit of Hardox® HiTemp is its ability to withstand the temperature deformation that leads to buckling and cracks. Hardox® HiTemp will reduce cost, improve uptime and increase safety thanks to less frequent shutdowns for maintenance and repair.

![Diagram showing high temperature properties for Hardox® HiTemp](image-url)

Hardox® HiTemp is suitable for wear applications up to 500°C (932°F).

The diagram shows high temperature properties for Hardox® HiTemp compared to ordinary quenched and tempered wear steel. Hardox® HiTemp retains more of its hardness at higher temperatures and also has better form stability at elevated temperatures.