

HARDOX®
WEAR PLATE

HARDOX HITEMP CAN TAKE THE HEAT



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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SSAB

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.

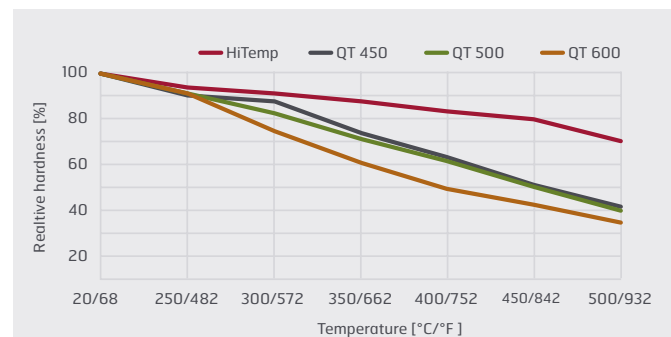
EASY TO WORK WITH

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.



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.

Width	1000-1350	1351-1500	1501-1599	1601-1699	1700-1800	1801-1900	1901-2000	2001-2100	2101-2200	2201-2300	2301-2400	2401-2500	2501-2600	2601-2700	2701-2800	2801-2900	2901-3000	3001-3100	3101-3200	3201-3300	3301-3350	
Thickness																						
3.2-3.9																						
4.0-4.9																						
5.0-5.7																						
5.8-6.0																						
6.1-6.7																						
6.8-7.7																						
7.8-8.7																						
8.8-10.0																						
10.1-25.0																						
25.1-26.0																						14600
26.1-27.0																						14200
27.1-28.0																						14200 13700 13500
28.1-29.0																						14100 13700 13300 11500
29.1-30.0																						14100 13600 13200 12800 11500
30.1-31.0																						14100 13600 13200 12800 12400 11500
31.1-32.0																						14200 13700 13200 12800 12400 12000 11500
32.1-33.0	14200																					14200 13700 13300 12800 12400 12000 11600 11500
33.1-34.0	13800																					14400 13800 13300 12900 12400 12000 11700 11300 11100
34.1-35.0	13400																					14500 13900 13400 12900 12500 12100 11700 11300 11000 10800
35.1-36.0	13100																					14100 13600 13100 12600 12200 11700 11400 11000 10700 10500
36.1-37.0	12700																					14300 13700 13200 12700 12200 11800 11400 11100 10700 10400 10200
37.1-38.0	12400																					14500 13900 13400 12800 12400 11900 11500 11100 10800 10400 10100 10000
38.1-39.0	12000																					14200 13600 13000 12500 12000 1160 11200 10800 10500 10200 9800 9700
39.1-40.0	11700																					14400 13800 13200 12700 12200 11700 11300 10900 10600 10200 9900 9600 9500
40.1-45.0	10400																					14100 13400 12800 12300 11700 11300 10800 10400 10100 9700 9400 9100 8800 8500 8400
45.1-50.0	9400																					14100 13400 12700 12100 11500 11000 10600 10100 9700 9400 9000 8700 8400 8200 7900 7700 7600
50.1-51.0	9000																					14400 13600 12800 12100 11500 11000 10500 10000 9600 9200 9000 9000 8900 8700 8400 8200 7900 7700 7000 6900