Hardox 500

Abrasion-resistant steel plate

EQUIVALENT GRADES

India (IS)	IS 18809 ISAR 500 (nearest) | AM/NS Rockstar 500 | JSPL Rockhard 500
USA (ASTM / AISI / SAE)	AR500 (nearest)
Europe (EN)	Hardox® 500 (SSAB brand; no EN number)
Japan (JIS)	JFE-EH500 / ABREX 500 (nearest)
China (GB)	NM500 (GB/T 24186, nearest)

CHEMICAL COMPOSITION (WEIGHT %)

C **max 0.30**	Si **max 0.40**	Mn **max 1.30**	P **max 0.020**
S **max 0.010**	Cr **max 2.20**	Ni **max 2.0**	Mo **max 0.40**
B **max 0.005**			

PROPERTIES

Mechanical (typical)	470–530 HBW (to 32 mm), 450–540 HBW (32.1–103 mm) | typical Yield about 1400 MPa | typical 37 J at -40 °C (20 mm)
Density	7.85 g/cm3 (7,850 kg/m3)
Typical uses	Mostly used for crusher and screen parts, buckets, cutting edges, shredder knives and high-wear liners
Notes	Max CEV 0.52 (sheet) to 0.91 (40–103 mm plate). Harder and less weldable than Hardox 450; preheat per SSAB guidance.

SUPPLY

Enquiry	Send grade, product form, size, quantity and delivery location for a quotation. Mill test certificates as per order.
Online	Equivalents, full chemistry by standard and weight calculator: https://steelimp.com/hardox-500-equivalent-grades

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Reference values compiled from published standards. Confirm against the governing standard, product form and the mill test certificate. Generated 13 Nov 2026.

STEEL IMPEX INDIA

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REFERENCE-USE NOTICE

The toolkit may contain errors. Manually verify dimensions, calculations and specifications against the applicable standard and supplier documentation before purchase, fabrication or use.

Read this notice with the source, material, condition and scope notes accompanying the preceding grade datasheet.

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