ABREX 450

Abrasion-resistant steel plate

EQUIVALENT GRADES

India (IS)	IS 18809 ISAR 450 (nearest) | AM/NS Rockstar 450
Europe (EN)	ABREX 450 (Nippon Steel)
China (GB)	NM450 (nearest)

CHEMICAL COMPOSITION (WEIGHT %)

C max 0.23	**Si** max 1.20	**Mn** max 2.00	**P** max 0.025
S max 0.010	**Ni** max 1.00	**Cr** max 1.20	**Mo** max 0.60
B max 0.005			

PROPERTIES

Mechanical (typical)	410–490 HBW (target 450) | typical Yield 1192 MPa | Tensile 1469 MPa (25 mm)
Density	7.85 g/cm3 (7,850 kg/m3)
Typical uses	Mostly used for buckets, liners, chutes, crusher and mining wear parts
Notes	Thickness 6–50 mm. Pcm max 0.36.

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/abrex-450-equivalent-grades

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Enquiry: steelimp.com/quote.php

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

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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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