# ABREX 500

Abrasion-resistant steel plate

## EQUIVALENT GRADES

| | |
|---|---|
| **India (IS)** | IS 18809 ISAR 500 (nearest) \| AM/NS Rockstar 500 |
| **Europe (EN)** | ABREX 500 (Nippon Steel) |
| **China (GB)** | NM500 (nearest) |

## CHEMICAL COMPOSITION (WEIGHT %)

| | | | |
|---|---|---|---|
| **C** max 0.35 | **Si** max 1.20 | **Mn** max 2.00 | **P** max 0.015 |
| **S** max 0.010 | **Ni** max 1.00 | **Cr** max 1.20 | **Mo** max 0.60 |
| **B** max 0.005 | | | |

## PROPERTIES

| | |
|---|---|
| **Mechanical (typical)** | 450–550 HBW (target 500) \| typical Yield 1373 MPa \| Tensile 1552 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 0.42. |

## 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-500-equivalent-grades |

**Steel Impex India**
231/235 Chouhan House, 2nd Kumbharwada Lane, Sant Sena Maharaj Marg, Mumbai, Maharashtra 400004, India

Tel: +91 95946 66986
sanjay@steelimp.com
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.