# XAR 500

Abrasion-resistant steel plate

## EQUIVALENT GRADES

| | |
|---|---|
| **India (IS)** | IS 18809 ISAR 500 (nearest) |
| **Europe (EN)** | XAR 500 (thyssenkrupp) |
| **China (GB)** | NM500 (nearest) |

## CHEMICAL COMPOSITION (WEIGHT %)

| | | | |
|---|---|---|---|
| C<br>**max 0.28** | Si<br>**max 0.80** | Mn<br>**max 1.50** | P<br>**max 0.025** |
| S<br>**max 0.010** | Cr<br>**max 1.00** | Mo<br>**max 0.50** | B<br>**max 0.005** |

## PROPERTIES

| | |
|---|---|
| **Mechanical (typical)** | 470–530 HBW \| typical Yield 1300 MPa \| Tensile 1600 MPa \| 25 J at -20 °C (typical) |
| **Density** | 7.85 g/cm3 (7,850 kg/m3) |
| **Typical uses** | Mostly used for buckets, liners, chutes, crusher and mining wear parts |
| **Notes** | Thickness 3–100 mm. |

## 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/xar-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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