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Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

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Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

Melting & Refining Method	IS:2062 E250 à¤¸à¤¾à¤®à¤¾à¤¨à¥•à¤¯à¤¤à¤? Basic Oxygen Furnace (BOF) à¤¯à¤¾ Electric Arc Furnace (EAF) à¤µà¤¿à¤§à¤¿à¤¯à¥?à¤? à¤?à¤¾ à¤?à¤ªà¤¯à¥?à¤? à¤?à¤°à¤?à¥? à¤¬à¤¨à¤¾à¤¯à¤¾ à¤?à¤¾à¤¤à¤¾ à¤¹à¥?, à¤¸à¤¾à¤¥ à¤¹à¥? Ladle Refining Furnace (LRF) à¤?à¥?à¤¸à¥?à¤¸à¥?à¤?à¥?à¤?à¤¡à¤°à¥? à¤°à¤¿à¤«à¤¾à¤?à¤¨à¤¿à¤?à¤? à¤?à¤¾ à¤?à¤ªà¤¯à¥?à¤? à¤à¥? à¤?à¤¿à¤¯à¤¾ à¤?à¤¾à¤¤à¤¾ à¤¹à¥? à¤¤à¤¾à¤?à¤¿ à¤?à¤?à¤¸à¤¿à¤¸à¥• à¤?à¥?à¤?à¤? à¤?à¥•à¤µà¤¾à¤²à¤¿à¤?à¥? à¤¸à¥•à¤¨à¤¿à¤¶à¥•à¤?à¤¿à¤¤ à¤¹à¥? à¤¸à¤?à¥?à¥¤
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Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

Key Chemical Elements and Mechanical Properties

Property	IS2062 E250 Grade A	IS2062 E250 Grade B	IS2062 E250 Grade C
Yield Strength (MPa)	â?¥ 250	â?¥ 250	â?¥ 250
Tensile Strength (MPa)	410 - 560	410 - 560	410 - 560
Elongation (%)	â?¥ 23	â?¥ 23	â?¥ 23
Carbon Content (%)	â?¤ 0.23	â?¤ 0.22	â?¤ 0.20
Sulfur Content (%)	â?¤ 0.045	â?¤ 0.045	â?¤ 0.040
Phosphorus Content (%)	â?¤ 0.045	â?¤ 0.045	â?¤ 0.040
Carbon Equivalent (CE)	0.42 max	0.42 max	0.42 max
Impact Test (J)	Not required	20 J @ 0Â°C	27 J @ 0Â°C

This table provides a quick comparison of the different grades (A, B, C) of IS2062 E250 structural steel based on key mechanical and chemical properties.

Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

Equivalent Steel Grades to IS2062 E250

- **Indian Standard (IS)**: IS2062 E250
- **American (ASTM)**:
  - ASTM A36
  - ASTM A572 Grade 42
  - ASTM A572 Grade 50
  - ASTM A992
  - ASTM A514 Grade 50
- **European (EN)**:
  - EN 10025 S275JR
  - EN 10025 S275J0
  - EN 10025 S275J2G3
  - EN 10025 S235JR
  - EN 10025 S355JR
- **Japanese (JIS)**:
  - JIS G3101 SS400
  - JIS G3106 SM400A
  - JIS G3106 SM490A
- **British (BS)**:
  - BS 4360 Grade 43A
  - BS EN 10025 S275JR

- BS EN 10025 S355JR

- **German (DIN)**:
  - DIN 17100 St 44-2
  - DIN EN 10025 S275JR
  - DIN EN 10025 S355JR

- **Korean (KS)**:
  - KS D3503 SS400
  - KS D3515 SM400A
  - KS D3516 SM490A

- **Russian (GOST)**:
  - GOST 380-2005 St3sp/ps
  - GOST 27772 Grade 09G2S
  - GOST 19281-89 St3

- **French (AFNOR)**:
  - NF A35-501 A37
  - NF A35-501 E24-2
  - NF EN 10025 S275JR
  - NF EN 10025 S355JR

- **Italian (UNI)**:
  - UNI 7070 Fe 430B
  - UNI EN 10025 S275JR
  - UNI EN 10025 S355J0

- **Canadian (CSA)**:
  - CSA G40.21 300W
  - CSA G40.21 260W
  - CSA G40.21 350W

- **Australian (AS/NZS)**:
  - AS/NZS 3678 Grade 250
  - AS/NZS 3678 Grade 350
  - AS/NZS 1594 HA250

- **Swedish (SS)**:
  - SS 1411
  - SS 1412
  - SS 1442

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- **Chinese (GB)**:
  - GB/T 700 Q235B
  - GB/T 1591 Q345B
  - GB/T 3274 Q420B
- **Turkish (TS)**:
  - TS 7070 St 37-2
  - TS 7070 St 44-2
  - TS EN 10025 S275JR
- **Brazilian (NBR)**:
  - NBR 7007 A36
  - NBR 7008 A572 Grade 42
  - NBR 16271 S235JR
- **South African (SABS)**:
  - SABS 1431 Grade 300W
  - SABS 1431 Grade 350WA
  - SABS 500/1
- **Mexican (NMX)**:
  - NMX-B-506-C St 42
  - NMX-B-506-C Gr 50
  - NMX-B-026-1997
- **Finnish (SFS)**:
  - SFS 2357 Fe 430B
  - SFS 2371 SS13
  - SFS 2414 Fe510B
- **Spanish (UNE)**:
  - UNE 36080 AE 235B
  - UNE 36081 S275JR
  - UNE 36083 S355JR
- **Czech (Ä?SN)**:
  - Ä?SN 41 1373 11 375
  - Ä?SN 42 1381 S275JR
  - Ä?SN 42 0595 S355J2
- **ISO**:

Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

- ISO 630-2 S275JR
- ISO 4950-1 Fe430B
- ISO 898-1 8.8

- **MIL (Military Standard)**:
  - MIL-S-22698C Grade A
  - MIL-S-22698C Grade B
  - MIL-A-12560

- **Argentinian (IRAM)**:
  - IRAM IAS U500-259
  - IRAM IAS U500-409
  - IRAM 14035 Fe 430

- **Polish (PN)**:
  - PN EN 10025 S275JR
  - PN-EN 10025-2 St3
  - PN 8451 Fe360B

- **Norwegian (NS)**:
  - NS 143-83 B
  - NS EN 10025 S275JR
  - NS 2300 S355JR

- **Romanian (STAS)**:
  - STAS 500/2-80 OL 37-2
  - STAS 438/1 Fe360A
  - STAS 1194 Fe 430

- **Belgian (NBN)**:
  - NBN 35-101 S235JR
  - NBN 35-501 S275JR
  - NBN EN 10025 S355J2

- **Dutch (NEN)**:
  - NEN 3850 S275JR
  - NEN 1872 Fe360B
  - NEN 1522 St 44-2

- **Austrian (Ã?NORM)**:
  - Ã?NORM B4300 FE 430 B
  - Ã?NORM EN 10025 S275JR

Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

  - Ã?NORM 2250 St 37-2

- **Indonesian (SNI)**:
  - SNI 07-2052 SNI A36
  - SNI A572 Grade 42
  - SNI 7397-2008 S235JR

- **Singapore (SS)**:
  - SS 400
  - SS S275JR
  - SS 485

- **Malaysian (MS)**:
  - MS 1313 Grade 275
  - MS 2025 Fe360B
  - MS 1233 St37

- **Philippines (PNS)**:
  - PNS 06-153 SS275
  - PNS 49 235B
  - PNS 1932 Fe430

- **Thai (TIS)**:
  - TIS 1227 SS400
  - TIS 1340 Grade 275
  - TIS 1697 Grade 300

- **Pakistani (PS)**:
  - PS 1610 Grade 275
  - PS 2300 Fe430B
  - PS 2330 St 37-2

- **UAE (UAE Standards)**:
  - UAE.S. 380-2010 G250

- **Vietnamese (TCVN)**:
  - TCVN 1650-2008
  - TCVN 1557-1998
  - TCVN 8490:2011

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Date
20/03/2026
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