



IS2062 E250 Ø17.00 - 63.50

### Description

### Key Chemical Elements and Mechanical Properties

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

### 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

- **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):**

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- 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:**

- 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

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- 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
- 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

**Date**

03/05/2026

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