



## IS2062 E250 Bright Bar Rounds Dia 17.00 mm to 63.50 mm

$\bar{D}$ ,  $\bar{D}_2$ ,  $\bar{D}_3$ ,  $\bar{D}_4$ ,  $\bar{D}_5$ ,  $\bar{D}_6$ ,  $\bar{D}_7$ ,  $\bar{D}_8$ ,  $\bar{D}_9$ ,  $\bar{D}_{10}$ ,  $\bar{D}_{11}$ ,  $\bar{D}_{12}$ ,  $\bar{D}_{13}$ ,  $\bar{D}_{14}$ ,  $\bar{D}_{15}$ ,  $\bar{D}_{16}$ ,  $\bar{D}_{17}$ ,  $\bar{D}_{18}$ ,  $\bar{D}_{19}$ ,  $\bar{D}_{20}$ ,  $\bar{D}_{21}$ ,  $\bar{D}_{22}$ ,  $\bar{D}_{23}$ ,  $\bar{D}_{24}$ ,  $\bar{D}_{25}$ ,  $\bar{D}_{26}$ ,  $\bar{D}_{27}$ ,  $\bar{D}_{28}$ ,  $\bar{D}_{29}$ ,  $\bar{D}_{30}$ ,  $\bar{D}_{31}$ ,  $\bar{D}_{32}$ ,  $\bar{D}_{33}$ ,  $\bar{D}_{34}$ ,  $\bar{D}_{35}$ ,  $\bar{D}_{36}$ ,  $\bar{D}_{37}$ ,  $\bar{D}_{38}$ ,  $\bar{D}_{39}$ ,  $\bar{D}_{40}$ ,  $\bar{D}_{41}$ ,  $\bar{D}_{42}$ ,  $\bar{D}_{43}$ ,  $\bar{D}_{44}$ ,  $\bar{D}_{45}$ ,  $\bar{D}_{46}$ ,  $\bar{D}_{47}$ ,  $\bar{D}_{48}$ ,  $\bar{D}_{49}$ ,  $\bar{D}_{50}$ ,  $\bar{D}_{51}$ ,  $\bar{D}_{52}$ ,  $\bar{D}_{53}$ ,  $\bar{D}_{54}$ ,  $\bar{D}_{55}$ ,  $\bar{D}_{56}$ ,  $\bar{D}_{57}$ ,  $\bar{D}_{58}$ ,  $\bar{D}_{59}$ ,  $\bar{D}_{60}$ ,  $\bar{D}_{61}$ ,  $\bar{D}_{62}$ ,  $\bar{D}_{63}$ ,  $\bar{D}_{64}$ ,  $\bar{D}_{65}$ ,  $\bar{D}_{66}$ ,  $\bar{D}_{67}$ ,  $\bar{D}_{68}$ ,  $\bar{D}_{69}$ ,  $\bar{D}_{70}$ ,  $\bar{D}_{71}$ ,  $\bar{D}_{72}$ ,  $\bar{D}_{73}$ ,  $\bar{D}_{74}$ ,  $\bar{D}_{75}$ ,  $\bar{D}_{76}$ ,  $\bar{D}_{77}$ ,  $\bar{D}_{78}$ ,  $\bar{D}_{79}$ ,  $\bar{D}_{80}$ ,  $\bar{D}_{81}$ ,  $\bar{D}_{82}$ ,  $\bar{D}_{83}$ ,  $\bar{D}_{84}$ ,  $\bar{D}_{85}$ ,  $\bar{D}_{86}$ ,  $\bar{D}_{87}$ ,  $\bar{D}_{88}$ ,  $\bar{D}_{89}$ ,  $\bar{D}_{90}$ ,  $\bar{D}_{91}$ ,  $\bar{D}_{92}$ ,  $\bar{D}_{93}$ ,  $\bar{D}_{94}$ ,  $\bar{D}_{95}$ ,  $\bar{D}_{96}$ ,  $\bar{D}_{97}$ ,  $\bar{D}_{98}$ ,  $\bar{D}_{99}$ ,  $\bar{D}_{100}$

### 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):**

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- 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):**

- NMX-B-506-C St 42
- NMX-B-506-C Gr 50

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- 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
- NS 2300 S355JR

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- **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 (Ä?NORM):**

- Ä?NORM B4300 FE 430 B
- Ä?NORM EN 10025 S275JR
- Ä?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):**

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- 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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