

ASTM A516 Grade 60 – Technical Datasheet

1. Chemical & Mechanical Properties

Element / Property	Value
C	≤ 0.28%
Mn	≤ 1.35%
P	≤ 0.035%
S	≤ 0.035%
Si	≤ 0.40%
Cu	-
YS	≥ 241 MPa
TS	415 – 540 MPa
Elongation	≥ 23%
Impact	27J min at -29°C
Hardness	N/A

2. Equivalent / Alternative Grades

Standard	Grade	C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	YS (MPa)	TS (MPa)	Elongation / Impact
IS 2062	E350C / E350CCu	≤ 0.22	≤ 1.60	≤ 0.045	≤ 0.040	≤ 0.45	-	≥ 300	460 – 590	≥ 22% / Optional
EN 10025-2	S275J2	≤ 0.22	≤ 1.60	≤ 0.035	≤ 0.035	≤ 0.55	-	≥ 275	410 – 560	≥ 22% / 27J @ -10°C
ASTM A283	Grade D	≤ 0.26	≤ 1.35	≤ 0.035	≤ 0.040	-	-	≥ 290	415 – 550	≥ 23% / Optional

3. Common Applications

- Pressure vessels
- Boilers

- Storage tanks

4. Standard Conformance

ASTM A516 Specification for Pressure Vessel Plates, Carbon Steel, for Moderate- and Lower-Temperature Service.

Grade Code Meaning:

Grade number indicates minimum yield strength in ksi (e.g. 60 = 60 ksi = 414 MPa)

5. Disclaimer

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