

Equivalent standard comparison table

	Grade	Chemical Composition (max %, unless noted)	Mechanical Properties
ASTM A106	Gr. B	C ≤ 0.30, Mn 0.29–1.06, P ≤ 0.035, S ≤ 0.035, Si ≥ 0.10	Tensile ≥ 415 MPa, Yield ≥ 240 MPa, Elong ≥ 30%
ASME SA106	Gr. B	Same as ASTM A106	Same as ASTM A106
API 5L	Grade B	C ≤ 0.28, Mn ≤ 1.20, P ≤ 0.030, S ≤ 0.030	Tensile ≥ 415 MPa, Yield ≥ 245 MPa
EN 10216-2	P265GH	C ≤ 0.20, Mn 0.80–1.40, P ≤ 0.025, S ≤ 0.015	Tensile 410–530 MPa, Yield ≥ 265 MPa
DIN 17175	St45.8	C ≤ 0.21, Mn 0.40–1.20, P ≤ 0.025, S ≤ 0.025	Tensile 410–530 MPa, Yield ≥ 255 MPa
BS 3059 Pt.2	360	C ≤ 0.23, Mn 0.40–1.06, P ≤ 0.040, S ≤ 0.040	Tensile 360–500 MPa, Yield ≥ 235 MPa
JIS G3454	STPG410	C ≤ 0.25, Mn 0.30–0.90, P ≤ 0.035, S ≤ 0.035	Tensile ≥ 410 MPa, Yield ≥ 245 MPa