ASTM A537 Class 1 / Class 2

Pressure vessel plate

EQUIVALENT GRADES

India (IS)	Jindal Steel A537 Cl. 1 / Cl. 2
USA (ASTM / AISI / SAE)	ASTM A537 / ASME SA537 Cl. 1 and Cl. 2
Europe (EN)	P355N / P355NL1 (Cl. 1, nearest) | P460N (Cl. 2, nearest)
Werkstoff No. (W.Nr)	1.0562 (P355N)
China (GB)	Q370R (nearest)

CHEMICAL COMPOSITION (WEIGHT %)

C **max 0.24**	Mn **0.70–1.35**	Si **0.15–0.50**	P **max 0.025**
S **max 0.025**	Cu **max 0.35**	Ni **max 0.25**	Cr **max 0.25**
Mo **max 0.08**			

PROPERTIES

Mechanical (typical)	Cl. 1: Tensile 485–620 MPa, Yield min 345 MPa | Cl. 2: Tensile 550–690 MPa, Yield min 415 MPa (max 65 mm) | Elongation min 22% (50 mm)
Density	7.85 g/cm3 (7,850 kg/m3)
Typical uses	Mostly used for pressure vessels, LPG spheres, storage tanks and penstocks
Notes	Mn 1.00–1.60 above 40 mm. Mn up to 1.60 and Ni up to 0.50 allowed if CE max 0.57. Class 1 is normalised, Class 2 quenched and tempered.

SUPPLY

Enquiry	Send grade, product form, size, quantity and delivery location for a quotation. Mill test certificates as per order.
Online	Equivalents, full chemistry by standard and weight calculator: https://steelimp.com/astm-a537-class-1-class-2-equivalent-grades

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Reference values compiled from published standards. Confirm against the governing standard, product form and the mill test certificate. Generated 12 Nov 2026.