ASTM A515 Gr. 70

Pressure vessel plate

EQUIVALENT GRADES

India (IS)	AM/NS and Jindal Steel A515
USA (ASTM / AISI / SAE)	ASTM A515 / ASME SA515 Gr. 70
Europe (EN)	P355GH (nearest)
Japan (JIS)	SB480
China (GB)	Q345R (nearest)

CHEMICAL COMPOSITION (WEIGHT %)

C	Mn	Si	P
max 0.31	**max 1.30**	**0.13–0.45**	**max 0.025**

S
max 0.025

PROPERTIES

Mechanical (typical)	Tensile 485–620 MPa | Yield min 260 MPa | Elongation min 21% (50 mm)
Density	7.85 g/cm3 (7,850 kg/m3)
Typical uses	Mostly used for boilers and pressure vessels in intermediate and higher-temperature service
Notes	Carbon limit rises with thickness. Coarse-grain (Si-killed) practice, unlike fine-grain A516 for low-temperature service.

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-a515-gr-70-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.