

BOILER QUALITY PLATES

It is basically proposed for utilization in welded pressure vessels where indent durability is important. These evaluations cover a scope of rigidities from 55 - 90 Mpa and this flexibility clarifies a great part of the particulars ubiquity.

For plates more slender than 40mm ordinarily supply as rolled. Plates over 40mm thick are standardized. For A 516 grade 70, which is one of most well known steels, the ASME standard organization is as per the following (reliant on evaluation):

ASTM A516 Standard steel plates are planned for utilization in pressure vessels where expanded quality is important.

ASTM A516 Chemical Properties (Cast Analysis)

C	Mn			
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Vandan Steel & Engg. co.

359 / 373, Flat -9, 2nd Floor, Minerva Mansion, Svp. Road,
Khetwadi, Giragoan, Mumbai-400 004.

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	t < 12.5 mm	12.5mm < t =50mm	50mm < t ≤ 100mm	100mm < t ≤ 200mm	t < 200 mm	t < 12.5 mm	t 12s.5 mm	P max	S max	Si max
A516 Grade 55	0.18	0.2	0.22	0.24	0.26	06-09	0.55- 0.98	0.035	0.035	0.15- 0.4
A516 Grade 60	0.21	0.23	0.25	0.27	0.27	06-09	0.85- 1.2	0.035	0.035	0.15- 0.4
A516 Grade 65	0.24	0.26	0.28	0.29	0.29	0.85- 1.2	0.85- 1.2	0.035	0.035	0.15- 0.4
A516 Grade 70	0.27	0.28	0.3	0.31	0.31	0.85- 1.2	0.85- 1.2	0.035	0.035	0.15- 0.4

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ASTM A516 Mechanical Properties

	Tensile Strength (ksi)	Tensile Strength (MPa)	Yield Strength (ksi)	Yield Strength (MPa)	Elongation in 200mm(%)	Elongation in 50mm(%)
A516 Grade 55	55-75	380-515	30	205	23	27
A516 Grade 60	60-80	415-550	32	220	21	25
A516 Grade 65	65-85	450-585	35	240	19	23
A516 Grade 70	70-90	485-620	38	260	17	21

ASTM A516 Mechanical Properties When the thickness is less than 5/16 in(8mm), See Specification A20/A20M for elongation adjustment.

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**VANDAN STEEL
& ENGG. CO. —**

An ISO 9001 : 2008 Certified Company

We can supply:

Thickness: From 5mm to 150mm

Width: From 1,500mm to 2,500mm

Length: From 6,000mm to 12,000mm

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