

**Product:** Pressure Vessels and boilers Plate

**Kategori:** High Tensile Steel Plate

**Grades :** A-516 Gr.70

**Standard:** ASTM/ ASME



### Characteristic

Beyond-steel provide high tensile carbon steel plate according to ASTM A516 Grade 70 and ASME SA516 Grade 70 for boiler and pressure vessel fabrication of the oil, gas and petrochemical industry.

ASTM A-516 standard is primarily used in welded pressure vessels where improved notch toughness is required. The steel plates allow four different strength levels 55, 60, 65 & 70 and the most common is grade 70. This grade is made to a fine grain particle size to meet the requirement of varied industry applications. ASTM A-516 Gr.70 steel plates are HIC tested.

### Equivalent Standard

ASTM A285 | ASME SA285 | ASTM A537 | ASME SA537 | EN 10028 | BS 1501 | DIN 17155 | Cryogenic Steel

### Related Grade

ASTM A516 Gr.55 | ASTM A516 Gr.60 | ASTM A516 Gr.65 | ASTM A516 Gr.70

### Chemical Composition (%)

C	Si	Mn	P	S	Al	Cr	Cu	Ni	Mo	Nb	Ti	V
0.10-0.22	0.6	1.0-1.7	0.03	0.03	0.02	0.3	0.3	0.3	0.08	0.01	0.03	0.02

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**Availability**

Thickness: 8 – 65 mm

Size: 1524 x 6096 mm or 5 x 20ft

1829 x 6096 mm or 6 x 20ft

**Tabel Ukuran, Berat Plat ASTM A-516 Gr.70**

Product	Thickness (Inch)	Size (Feet)	Weight (Kg)
Plat A516 5 mm	3/16"	5' x 20'	347
Plat A516 6 mm	1/4"	5' x 20'	463
Plat A516 8 mm	5/16"	5' x 20'	579
Plat A516 9 mm	3/8"	5' x 20'	694
Plat A516 12 mm	1/2"	5' x 20'	926
Plat A516 14 mm	9/16"	5' x 20'	1042
Plat A516 16 mm	5/8"	5' x 20'	1158
Plat A516 19 mm	3/4"	5' x 20'	1389
Plat A516 25 mm	1"	5' x 20'	1852
Plat A516 38 mm	1.5"	5' x 20'	2824
Plat A516 45 mm	1.75"	6' x 20'	4012
Plat A516 50 mm	2"	6' x 20'	4458
Plat A516 60 mm	2.375"	6' x 20'	5351
Plat A516 65 mm	2.625"	6' x 20'	5695

For plates < 40mm (thinner), normally supply as rolled. Plates supplied > 40mm (above) thick are normalised.

Thickness above 65mm indent 6 – 8 weeks with minimum order

**Mechanical Properties**

Tensile strength (MPa) : 485-620

Yield strength (MPa) : 260

Elongation in 200mm (min)(%): 17

Elongation in 50mm (min) (%): 21

Thickness (max)(mm) : 205

**Features:**

Uniform surface

High tensile strength

Corrosion resistance

Sturdy construction

Temperature resistance

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