

ASTM A516Gr65 steel plate/sheet for Weldable normalized fine grained pressure vessel steels

ASTM A516Gr65 steel plate/sheet, ASTM A516Gr65 steel plate/sheet, under ASTM standard, we can regard A516Gr65 steel plate/sheet for simple pressure vessels steel.

ASTM A516Gr65/ASME SA516Gr65 is an excellent weldable carbon steel choice for pressure vessels and boiler fabrication. The material offers excellent performance in lower than ambient temperature service, has good weldability and excellent notch toughness.

ASTM A516 Grade 65/ASME SA516 Grade65A has greater specified tensile and yield strength when compared with ASTM A516 Gr60/ASME SA516Gr60.

Chemical Composition of ASTM A516 Grade 65 /ASME SA516 Grade65

Carbon(C)	%	Manganese(Mn)	%	Phosphorus(P)	%
12.55mm or less	0.24	12.5mm or less		(max)	0.035
12.5-50mm	0.26	Heat Analysis	0.85-1.20		
50-100mm	0.28	Product Analysis	0.79-1.30		
100-200mm	0.29	Over 12.5mm			
>200mm	0.29	Heat Analysis	0.85-1.20		
		Product Analysis	0.79-1.30		
Sulphur(S)	%	Silicon(Si)	%		
(max)	0.035	Heat Analysis	0.15-0.40		
		Product Analysis	0.13-0.45		

Mechanical Properties of ASTM A516Gr65/ASTM SA516Gr65

Description	Grade65
Tensile Strength(Ksi)	65-85
Tensile Strength(MPa)	450-585
Yield Strength(Ksi)	35
Elongation in 200mm(min.%)	240
Elongation in 50mm(min.%)	19
Thickness(max/min)	21
	205

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