

ASTM A516Gr65 Weldable normalized fine grained pressure vessel steels

Key words :

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.

ASTM A516Gr65 steel Chemical Composition % :

Main chemical composition in ASTM A516Gr65 steel: Carbon from 0.24 to 0.29, Manganese from 0.85 to 1.30, Sulphur max 0.035, Phosphorus max 0.035, Silicon max 0.15-0.40, More detailed information, please refer to the flowing table:

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			
50-100mm	0.28	Product Analysis	0.85-1.20		
100-200mm	0.29	Over 12.5mm	0.79-1.30		
>200mm	0.29	Heat Analysis			
		Product Analysis	0.85-1.20		
			0.79-1.30		
Sulphur(S)	%	Silicon(Si)	%		
(max)	0.035	Heat Analysis	0.15-0.40		
		Product Analysis	0.13-0.45		

ASTM A516Gr65 steel Mechanical Properties

ASTM A516Gr65 steel plate/sheet for carbon and low alloy steels, This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity, processing property. More detailed information about ASTM A516Gr65 steel Mechanical Properties , please refer to the following table:

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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