

ASTM A516Gr70 Weldable normalized fine grained pressure vessel steels

Key words :

ASTM A516Gr70 steel plate/sheet, [ASTM A516Gr70 steel plate/sheet](#), under ASTM standard, we can regard A516Gr70 steel plate/sheet for simple pressure vessels steel.

ASTM A516Gr70/ASME SA516Gr70 is an excellent choice for service in lower than ambient temperature applications, has excellent notch toughness and is used in both pressure vessels and industrial boilers. ASTM A516Gr70/ASME SA516Gr70 offers greater tensile and yield strength when compared to ASTM A516Gr65/ASME SA516Gr65 and can operate in even lower temperature service.

ASTM A516Gr70 steel Chemical Composition % :

Main chemical composition in ASTM A516Gr70 steel: Carbon from 0.27 to 0.31, 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	0.27	12.5mm or less		(max)	0.035
12.5-50mm	0.28	Heat Analysis			
50-100mm	0.30	Product Analysis	0.85-1.20		
100-200mm	0.31	Over 12.5mm	0.79-1.30		
>200mm	0.31	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 A516Gr70 steel Mechanical Properties

ASTM A516Gr70 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 A516Gr70 steel Mechanical Properties , please refer to the following table:

Description	Grade70
Tensile Strength(Ksi)	70-79
Tensile Strength(MPa)	485-620
Yield Strength(Ksi)	38
Elongation in 200mm(min.%)	260
Elongation in 50mm(min.%)	17
Thickness(max/min)	21
	205

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