

ASTM A516Gr60 Weldable normalized fine grained pressure vessel steels

Key words :

ASTM A516Gr60 steel plate/sheet, ASTM A516Gr60 steel plate/sheet, under ASTM standard, we can regard A516Gr60 steel plate/sheet for simple pressure vessels steel.

ASME SA516Gr60 is a boiler and pressure vessel quality steel which is ideal for moderate and lower temperature service. The material is used extensively by industrial boiler and pressure vessel fabricators who provide manufacturing support to the oil, gas and petrochemical industry. The steel has good weldability and excellent notch toughness.

ASTM A516Gr60 steel Chemical Composition % :

Main chemical composition in ASTM A516Gr60 steel: Carbon from 0.21 to 0.27, Manganese from 0.6 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	0.21	12.5mm or less		(max)	0.035
12.5-50mm	0.23	Heat Analysis			
50-100mm	0.25	Product Analysis	0.6-0.9		
100-200mm	0.27	Over 12.5mm	0.55-0.98		
>200mm	0.27	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 SA516Gr60 steel Mechanical Properties

ASTM SA516Gr60 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 SA516Gr60 steel Mechanical Properties , please refer to the following table:

Description	Grade60
Tensile Strength(Ksi)	60-80
Tensile Strength(MPa)	415-550
Yield Strength(Ksi)	32
Elongation in 200mm(min.%)	220
Elongation in 50mm(min.%)	21
Thickness(max/min)	25
	205

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