

ASTM A516Gr55 Weldable normalized fine grained pressure vessel steels

Key words :

ASTM A516Gr55 steel plate/sheet, ASTM A516Gr55 steel plate/sheet, under ASTM standard, we can regard A516Gr55 steel plate/sheet for simple pressure vessels steel.

A516 Grade 55 steel grade is used in moderate and lower temperature pressure vessels steel because of the steel material chemical composition and the property in welding. For the reason of excellent notch toughness and weldability of A516 Grade 55, it sells good to large fabricators service in gas & oil plants. The followings are the chemical composition and mechanical properties of ASTM A516Gr.55 steel plate sheet.

ASTM A516Gr55 steel Chemical Composition % :

Main chemical composition in ASTM A516Gr55 steel: Carbon from 0.18 to 0.26, Manganese from 0.55-1.3, Sulphur max 0.035, Phosphorus max 0.035, Silicon max 0.13-0.45, More detailed information, please refer to the flowing table:

Grade	C	Si	Mn	P	S
A516Gr.55	0.18-0.26	0.13-0.45	0.55-1.3	0.035	0.035

ASTM A516Gr55 steel Mechanical Properties

A516Gr55 this material is mainly used to fabricate boiler and pressure vessel. So ,same the other boiler and pressure vessel using steel plate, this kind of steel has the good grain and Mechanical properties. It's yield strength is between 380-515 MPa (there is different min strength point at the different thickness.) A516Gr55 tensile strength is 205MPa. (different min strength point at the different thickness.) More detailed information about ASTM A516Gr55 steel Mechanical Properties , please refer to the following table:

Grade	Thickness (mm)	Tensile strength [MPa]	Yield strength Min.[MPa]	Elongation [%]
A516Gr.55	6-40	205	380-515	27
	40-100	205	380-515	23

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