

ASTM A537 CL2 Weldable normalized fine grained pressure vessel steels

Key words :

ASTM A537 CL2 steel plate/sheet, ASTM A537 CL2 steel plate/sheet, under ASTM standard, we can regard A537 CL2 steel plate/sheet for simple pressure vessels steel.

A 537 Class 2 carbon steel plates are engineered to be used in pressure vessel applications. ASTM A537 Class 2 steel is a higher yield and tensile strength material used in the fabrication of pressurised vessels and steel boilers. The steel includes the alloying of carbon, manganese and silicon and is heat treated using the quenched and tempered method which gives the material its residual strength. Sourced by the world's leading fabricators, ASTM A537 Class 2 is a material used extensively by the oil, gas and petrochemical industry.

ASTM A537 CL2 steel Chemical Composition % :

Main chemical composition in ASTM A537 CL2 steel: Carbon max 0.24, Manganese from 0.7-1.6, Sulphur max 0.035, Phosphorus max 0.035, Silicon from 0.15-0.5, More detailed information, please refer to the following table:

Grade	C	Si	Mn		P	S	Cr	Mo	Ni	Cu
			≤40 mm	>40 mm						
A537CL2	0.24	0.15-0.50	0.70-1.35	1.00-1.60	0.035	0.035	0.25	0.80	0.25	0.35

ASTM A537 CL2 steel Mechanical Properties

A537 CL2 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. Its yield strength is between 315- 415 MPa (there is different min strength point at the different thickness.) A537 CL2 tensile strength is from 485MPa to 690MPa. (different min strength point at the different thickness.) More detailed information about ASTM A537 CL2 steel Mechanical Properties, please refer to the following table:

Grade	Yield strength (MPa)	Tensile strength (MPa)	Elongation		Thickness
			A50mm	A200mm	
A537 CL2	415	550-690	22%	-	≤65
	380	515-655	22%	-	>65≤100
	315	485-620	20%	-	>100≤150

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