

**ASTM A537 CL1 Weldable normalized fine grained pressure vessel steels**

Key words :

**ASTM A537 CL1 steel plate/sheet**, ASTM A537 CL1 steel plate/sheet, under ASTM standard, we can regard A537 CL1 steel plate/sheet for simple pressure vessels steel.

A 537 Class 1 carbon steel plates are engineered to be used in pressure vessel applications. A537 Class 1 steel plates shall be normalized in all of thickness. A 537 steel material usual be serviced the Gas, Petrochemical and Oil industry. The material of ASTM A537 Class 1 is a normalised steel which is heat treated and as a consequence displays greater yield and tensile strength than the more standard ASTM A516 grades. The steel is ideal for use in pressurised service both in boilers and pressure vessels and Masteel UK Limited supplies A537 Class 1 plates to the world's leading fabricators who in turn serve the Oil, Gas and Petrochemical industry.

**ASTM A537 CL1 steel Chemical Composition** % :

Main chemical composition in ASTM A537 CL1 steel: Carbon max 0.24, Manganese from 0.7 to 1.60, Sulphur max 0.035, Phosphorus max 0.035, Silicon from 0.15 to 0.50, More detailed information, please refer to the following table:

Grade	Thickness (mm)	Chemical composition %.								
		C. max	Si	Mn	P. max	S. max	Cu. max	Ni. max	Cr. max	Mo. max
A537CL 1	6.00-38.10	0.24	0.15-0.50	0.70-1.35	0.035	0.035	0.35	0.25	0.25	0.08
	38.11-50.80			1.00-1.60						

**ASTM A537 CL1 steel Mechanical Properties**

A537 CL1 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 50 MPa (there is different min strength point at the different thickness.) A537 CL1 tensile strength is from 70MPa to 90MPa. (different min strength point at the different thickness.) More detailed information about ASTM A537 CL1 steel Mechanical Properties , please refer to the following table:

Grade	Tensile Test			
	Yield Strength Ksi(N/mm2)	Tensile Strength Ksi(N/mm2)	Elongation	
			Test piece in(mm)	%.min
A537 Class 1	50(345)min	70-90 (485-620)	GL=8(200) GL=2(50)	18 22

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