

**ASTM A537 CL3 Weldable normalized fine grained pressure vessel steels**

Key words :

**ASTM A537 CL3 steel plate/sheet**, ASTM A537 CL3 steel plate/sheet, under ASTM standard, we can regard A537 CL3 steel plate/sheet for simple pressure vessels steel.

A537 Class3 carbon steel plates are engineered to be used in pressure vessel applications. Steel plate A 537 CL3 is a quenched and tempered steel material, the same with A 537 CL2 in heat treatment. Although the A 537 CL3 only yields strength lower than A 537 CL2, the two grade have a little different in price. A 537 cl3 quenched and tempered temperature is 620, and A 537 cl2 is 595.

**ASTM A537 CL3 steel Chemical Composition** % :

Main chemical composition in ASTM A537 CL3 steel: Carbon max 0.24, Manganese from 0.64 to 1.46, Sulphur max 0.035, Phosphorus max 0.035, Silicon from 0.13 to 0.55, More detailed information, please refer to the flowing table:

Grade	C	Si	Mn	P	S	Cu	Ni	Cr	Mo
A537CL3	0.24	0.13-0.55	0.64-1.46	0.035	0.035	0.38	0.28	0.29	0.09

**ASTM A537 CL3 steel Mechanical Properties**

A537 CL3 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 275- 380 MPa (there is different min strength point at the different thickness.) A537 CL3 tensile strength is from 485MPa to 690MPa. (different min strength point at the different thickness.) More detailed information about ASTM A537 CL3 steel Mechanical Properties , please refer to the following table:

Grade	Thickness (mm)	Yield strength Min [MPa]	Tensile strength [MPa]	Elongation [%]
A537CL3	8-65	380	550-690	22
	66-100	345	515-655	22
	101-150	275	485-620	20

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