

## ASTM A537 CL2 steel plate/sheet for Weldable normalized fine grained pressure vessel steels

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.

The chemical composition of ASTM A537 Class 2 steel

Grade	C	Si	Mn		P	S	Cr	Mo	Ni	Cu
			≤40 mm	>40 mm						
A537 CL2	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

The mechanical properties of ASTM A537 Class 2 steel

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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