

## Steel plate for for Boiler Pressure Vessel ASTM A 537class 1 steel

A 537class 1 steel plate, ASTM A 537class 1 steel plates is a kind of material for boiler and pressure vessel steel. ASTM A 537class 1 steel plates is characterized by a minimum yield strength of 280-355 MPa and by good weldability, so A 537class 1 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids. the following are ASTM A 537class 1 steel plate's Chemical composition and mechanical properties.

Chemical analysis -% by mass\* (max) of A 537class 1 steel

Grade	C. %	Mn.%	S.	N	Cu	Nb	Ti.	Si.	P.	AL	Cr.	Mo.	Ni	Vi
A 537class 1	0.10-0.22	0.10-1.70	0.015	0.012	0.30	0.020	0.03	0.60	0.025	0.020	0.30	0.08	0.30	0.02

Mechanical properties of A 537class 1 steel

Grade	Type	Thickness mm	Yield strength Mpa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KVJ) (min)		
						-20°	0°	+20
A 537class 1	Normalized	≤16	355	510-650	20	27	34	40
		16>to≤40	345	510-650	20	27	34	40
		40>to≤60	335	460-580	20	27	34	40
		60>to≤100	315	490-630	20	27	34	40
		100>to≤150	295	480-630	20	27	34	40
		150>to≤250	280	470-630	20	27	34	40

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