

Steel plate for for Boiler Pressure Vessel DIN17135 A ST 45 steel

AST45 steel plate, DIN17135 AST45 steel plates is a kind of material for boiler and pressure vessel steel. DIN17135 AST45 steel plates is characterized by a minimum yield strength of 220 - 295 MPa and by good weldability, so A ST 45 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids. the following are DIN17135 A ST 45 steel plate's Chemical composition and mechanical properties.

If you are looking for Chinese A ST 45 steel supplier, if you want to know A ST 45 steel price, please be free to contact us.

Chemical analysis -% by mass* (max) of A ST45 steel

Grade	C. %	Mn.%	S.	N	Cu	Nb	Ti.	Si.	P.	AL	Cr.	Mo.	Ni	Vi
AST45	0.08-0.2	0.90-1.50	0.015	0.012	0.30	0.020	0.03	0.40	0.025	0.020	0.30	0.08	0.30	0.02

Mechanical properties of A ST 45 steel

Grade	Type	Thickness mm	Yield strength Mpa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KVJ) (min)		
						-20°	0°	+20
A ST 45	Normalized	≤16	295	460-580	21	27	34	40
		16>to≤40	290	460-580	21	27	34	40
		40>to≤60	285	460-580	21	27	34	40
		60>to≤100	260	460-580	21	27	34	40
		100>to≤150	235	440-570	21	27	34	40
		150>to≤250	220	430-570	21	27	34	40

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