

## Steel plate for for Boiler Pressure Vessel DIN17155 HI

HI steel plate, DIN17155 HI steel plates is a kind of material for boiler and pressure vessel steel. DIN17155 HI steel plates is characterised by a minimum yield strength of 170-230MPa and by good weldability,so HI steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids.the following are DIN17155 HI steel plate's Chemical composition and mechanical properties

Chemical analysis -% by mass\*

Grades	C max	Si max	Mn. max	P max	S max	N max	AL min	Cr max	Cu max	Mo max	Ni max	Nb max	Ti max	V max
HI	0.16	0.35	0.60-1.20	0.025	0.015	0.012	0.02	0.3	0.03	0.08	0.3	0.02	0.03	0.02

Mechanical properties

Gade	Thickness (mm)	Yield Strength MPa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KV J) (min)		
					-20℃	0℃	20℃
HI	≤ 16	235	360 to 480	24	27	34	40
	16<t ≤40	225	360 to 480	24	27	34	40
	40<t ≤60	215	360 to 480	24	27	34	40
	6<t ≤100	200	360 to 480	24	27	34	40
	100<t ≤150	185	350 to 480	24	27	34	40
	150<t ≤250	170	350 to 480	24	27	34	40

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