

## Steel plate for for Boiler Pressure Vessel DIN 17155 HII

HII steel plate,DIN 17155 HII steel plates is a kind of material for boiler and pressure vessel steel. DIN 17155 HII steel plates is characterised by a minimum yield strength of 185 - 265 MPa and by good weldability,so HII steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids.the following are DIN 17155 HII steel plate's Chemical composition and mechanical properties.

Chemical analysis -% by mass\* (max)

Grade	C. %	Mn.%	S.	N	Cu	Nb	Ti.	Si.	P.	AL	Cr.	Mo.	Ni	Vi
HII	0.20	0.80-1.40	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

Grade	Type	Thickness mm	Yield strength Mpa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KVJ) (min)		
						-20 °	0 °	+20
HII	Normalized	≤16	265	410-530	22	27	34	40
		16>to≤40	255	410-530	22	27	34	40
		40>to≤60	245	410-530	22	27	34	40
		60>to≤100	215	410-530	22	27	34	40
		100>to≤150	200	400-530	22	27	34	40
		150>to≤250	185	390-530	22	27	34	40

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