

## Steel plate for for Boiler Pressure Vessel BS 1501 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400

161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 steel plate,BS 1501 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 steel plates is a kind of material for boiler and pressure vessel steel. BS 1501 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 steel plates is characterised by a minimum yield strength of 185 - 265 MPa and by good weldability,so 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids.the following areBS 1501 161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400 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
161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400	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
161 Gr. 400 / 164 Gr. 400 / 224 Gr. 400	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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