

Steel plate for for Boiler Pressure Vessel BS 1501 161Gr.360/164Gr.360

161Gr.360/164Gr.360 steel plate, BS 1501 161Gr.360/164Gr.360 steel plates is a kind of material for boiler and pressure vessel steel. BS 1501 161Gr.360/164Gr.360 steel plates is characterised by a minimum yield strength of 170-230MPa and by good weldability,so Fe 360-1KW steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids.the following are BS 1501 161Gr.360/164Gr.360 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
161Gr.360/164Gr.360	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	Thicknes s (mm)	Yield Strength MPa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KV J) (min)		
					-20°C	0°C	20°C
161Gr.360/164Gr.360	≤ 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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