

## Steel plate for for Boiler Pressure Vessel JIS3115 SB 480 steel

SB 480 steel plate, JIS3115 SB 480 steel plates is a kind of material for boiler and pressure vessel steel. JIS3115 SB 480 steel plates is characterized by a minimum yield strength of 280-355 MPa and by good weldability, so SB 480 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids. the following are JIS3115 SB 480 steel plate's Chemical composition and mechanical properties.

Chemical analysis -% by mass\* (max) of SB 480 steel

Grade	C. %	Mn.%	S.	N	Cu	Nb	Ti.	Si.	P.	AL	Cr.	Mo.	Ni	Vi
SB 480	0.10-0.22	0.10-1.70	0.015	0.012	0.30	0.020	0.03	0.60	0.025	0.020	0.30	0.08	0.30	0.02

Mechanical properties of SB 480 steel

Grade	Type	Thickness mm	Yield strength Mpa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KVJ) (min)		
						-20°	0°	+20
SB 480	Normalized	≤16	355	510-650	20	27	34	40
		16>to≤40	345	510-650	20	27	34	40
		40>to≤60	335	460-580	20	27	34	40
		60>to≤100	315	490-630	20	27	34	40
		100>to≤150	295	480-630	20	27	34	40
		150>to≤250	280	470-630	20	27	34	40

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