

TYPE	STANDARD	GRADE	thickness : t mm.	CHEMICAL COMPOSITION (max)								TENSION TEST						BEND TEST		
				Yield Strength (min)		Tensile Strength		Elongation (min)		Angle (Degree)	Inside radius									
				thick : t mm.	Kgf / mm ² [N/mm ²]	thick : t mm.	Kgf / mm ² [N / mm ²]	thick : t mm.	%											
Carbon Steel and Molybdenum alloy steel plates for boilers and other pressure vessels	JIS G 3103 (1987) (applicable till the end of 1990)	SB42	t ≤ 25	0.24	0.15-0.30	0.90	0.035	0.040				23 [226]		42-56 [412-549]		No.1A	21	180	0.5 t	
			25 < t ≤ 50	0.27															0.75 t	
			50 < t ≤ 100	0.3															1.0 t	
		SB46	t ≤ 25	0.28	0.15-0.30	0.90	0.035	0.040					25 [245]		46-60 [451-588]		No.1A	19	180	0.75 t
			25 < t ≤ 50	0.31																1.0 t
			50 < t ≤ 100	0.33																1.0 t
		SB49	t ≤ 25	0.31	0.15-0.30	0.90	0.035	0.040					27 [265]		49-63 [481-618]		No.1A	17	180	1.0 t
			25 < t ≤ 50	0.33																1.0 t
			50 < t ≤ 100	0.35																1.25 t
		SB46M	t ≤ 25	0.18	0.15-0.30	0.90	0.035	0.040					26 [255]		46-60 [451-588]		No.1A	19	180	0.5 t
			25 < t ≤ 50	0.21																0.75 t
			50 < t ≤ 100	0.23																0.75 t
		SB49M	t ≤ 25	0.2	0.15-0.30	0.90	0.035	0.040					28 [275]		49-63 [481-618]		No.1A	17	180	0.75 t
			25 < t ≤ 50	0.23																1.0 t
			50 < t ≤ 100	0.25																1.0 t

Carbon steel and molybdenum alloy steel plates for boilers and other pressure vessels	JIS G 3103 (1987) applicable on and after Jan 1, 1991	SB 410	t ≤ 25	0.24	0.15-0.30	0.90	0.035	0.040				23 [225]		42-56 [410-550]		No.1A	21	180	0.5 t	
			25 < t ≤ 50	0.27															0.75 t	
			50 < t ≤ 100	0.3															1.0 t	
		SB 450	t ≤ 25	0.28	0.15-0.30	0.90	0.035	0.040					25 [245]		46-60 [450-590]		No.1A	19	180	0.75 t
			25 < t ≤ 50	0.31																1.0 t
			50 < t ≤ 100	0.33																1.0 t
		SB 480	t ≤ 25	0.31	0.15-0.30	0.90	0.035	0.040					27 [265]		49-63 [480-620]		No.1A	17	180	1.0 t
			25 < t ≤ 50	0.33																1.0 t
			50 < t ≤ 100	0.35																1.25 t
		SB 450M	t ≤ 25	0.18	0.15-0.30	0.90	0.035	0.040					26 [255]		46-60 [450-590]		No.1A	19	180	0.5 t
			25 < t ≤ 50	0.21																0.75 t
			50 < t ≤ 100	0.23																0.75 t
		SB 480 M	t ≤ 25	0.2	0.15-0.30	0.90	0.035	0.040					28 [275]		49-63 [480-620]		No.1A	17	180	0.75 t
			25 < t ≤ 50	0.23																1.0 t
			50 < t ≤ 100	0.25																1.0 t