

Comparison Tubes - Service Temperatures for Boiler and Heatexchanger Tubes

Max. Service Temperature	ASTM (USA)	DIN 17175 (Germany)	EN 10216-2 (Europe)	JIS G 3456 G 3458 G 3461 G 3462 (Japan)
-100° C -40° C	A 334 Gr. 3 A 334 Gr. 146			
475° C	A 179 A 106 Gr. A A 192	St35.8	P235GH	STPT 38 STB 35
	A 106 Gr. B A210 Gr. A1	St45.8	P265GH	STPT 42 STB 42
	A 106 Gr. C A 210 Gr. C	17Mn4		STPT 49
		19Mn5		STB 52
500° C		15Mo3	16Mo3	
	A 209 T1 A 335 P1	16Mo5	16Mo3	STBA 12 STPA 12 STBA 13
550° C	A 213 T2 A 335 P12			STBA 20 STPA 20
560° C	A 213 T12 A 335 P12	13CrMo44	13CrMo4-5	STBA 22 STPA 22
575° C	A 213 T11 A 335 P11			STBA 22 STPA 23
600° C	A 213 T5 A 335 P5 A 213 T22 A 335 P22	12CrMo195 10CrMo910	X11CrMo5 10CrMo9-10	STBA 25 STPA 25 STBA 24 STPA 24
		14MoV63		
625° C	A 213 T9 A 335 P9	X12CrMo91	11CrMo9-10	STBA 26 STPA 26
650° C	A 213 T91 A 335 P91	X10CrMoVNb9-1	X10CrMoVNb9-1	