

COMPARISON OF INTERNATIONAL STANDARDS

TUBES AND PIPES OF CARBON AND ALLOY STEELS FOR HIGH TEMPERATURE APPLICATIONS

ASTM A ASME SA	Grade	EN 10216-2	Steel No.	EN 10216-2 replacement for		JIS Grade	
				DIN Grade	BS Grade		
53	A	P195TR1 EN 10216-1	1.0107		3059-1: Steel 320		
	B	P265TR1 EN 10216-1	1.0258		3601:00:00 Steel 430		
106	A	P195GH	1.0348	17175	3059-1, -2: Steel 320, 360	G3461: STB340	
179	low carbon steel	P235GH	1.0345	St35.8	3602-1: Steel 360		
192	carbon steel						
106	B	P265GH	1.0425	17175: St45.8	3602-1: Steel 430	G3461: STB410	
210	A-1						
106	C			17175: 17Mn4	3059-2: Steel 440		
210	C						
209	T1, T1A, T1B, P1		1.5423	16Mo5		G3458: STPA12	
335	P1						G3462: STBA12
213	T2						G3458: STPA20
335	P2*						G3462: STBA20
213	T5, T5B**, T5C**	X11CrMo5+I	1.7362	17176: 12CrMo19-5	3604, 3606: Steel 625	G3458: STPA25	
335		X11CrMo5+NT1					G3462: STBA25
335	P5, P5B**, P5C**	X11CrMo5+NT2					
213	T9	X11CrMo9-1+I	1.7386	17176: X12CrMo9-1	3604:00:00 Steel 629	G3458: STPA26	
335	P9	X11CrMo9-1+NT					G3462: STBA26
213	T11	10CrMo5-5	1.7338		3604:00:00 Steel 621	G3458: STPA23	
335	P11						G3462: STBA23
213	T12	13CrMo4-5	1.7335	17175, 17176 13CrMo44	3059-2, 36,043,606 Steel 620-460	G3458: STPA22	
335	P12*						G3462: STBA22
213	T17						
335	P15						
213	T21			17176			
335	P21			12CrMo1210			
213	T22	10CrMo9-10	1.738	17175: 10CrMo910	3059-2, 3604,3606: Steel 622-490	G3458: STPA24	
335	P22						G3462: STBA24
213	T23	7CrWVMoNb9-6	1.8201				
213	T24	7CrMoVTiB10-10	1.7378				

* P2 and P12 are coarse grain steels

** T5B, P5B, T5C and P5C are modified 12 CrMo19-5 steels