

# ASTM No. AS PER MATERIALS AND PRODUCTS

MATERIAL	PLATE	PIPE	ELECTRIC FUSION WELDED PIPE	TUBES	CASTINGS	FORGINGS	WROUGHT FITINGS	CLADDING
Cast Iron					A278			
Ductile Iron					A395,A536			
Carbon steel	A 285 Gr.A, B, &C	A53 Gr. A&B	A671 Gr CA55 A672 Gr. A45-A55 A135 Gr. A&B	A 214(Welded), A 179(Seamless)	A216 Gr.WCA, WCB& WCC	A105 A181CL.. 60 or 70 A266 CL. I , II ,orIII	A 234 Gr.WPB	
Killed Carbon Steel	A 515 Gr.55-70, A 516 Gr.55-70	A106 Gr. A&B, A381, A333 Gr.1 API 5I	A672 Gr. B55-B70, A672 Gr. C55-C70	A 179, A 210, A 192 (Seamless), A 334 Gr.1&6	A216 Gr.WCA, WCB& WCC	A181CL.. 60 or 70 A266 CL. I , II ,orIII A350 Gr.LE1&2	A 234 Gr.WPB	
C-1/2 Mo	A204 Gr.A, B, &C	A335 Br. P1	A691 Gr. CM 65-CM 75	A209 Gr. T1	A217 Gr.WC1	A182 Gr. F1, A336 CL. F1	A 234 Gr.WP1	
Mn-1/2 Mo	A 302 Gr.B							
1 Cr-1/2 Mo	A 387 Gr.12	A355 Gr. P12	A691 Gr.1 Cr	A213 Gr. T12	A356-6	A182 Gr. F12 A336 CL. F12	A 234 Gr.WP 12	
1- 1/4 Cr-1/2 Mo	A 387 Gr. 11	A355 Gr. P-11	A691 Gr. 1-1/4 Cr	A199 Gr. T22, A213 Gr.T11	A217 Gr.WC6	A182 Gr. F11, A336 CL. F11	A 234 Gr.WP 11	
2- 1/4Cr-1 Mo	A 387 Gr.22	A355 Gr. P-22	A691 Gr. 2-1/4 Cr	A199 Gr. T22, A213 Gr. T22	A217 Gr.MC9	A182 Gr. F22, A336CL. F22	A 234 Gr.WP 22	
3 Cr-1 Mo	A 387 Gr. 21	A355 Br. P-21		A199 Gr. T22 A213 Gr. T21		A182 Gr. F21 A336CL. F21		
5 Cr-1/2 Mo	A387 Gr. 5 (Formerly A-357)	A355 Gr. P5	A691 Gr. Cr	A199 Gr. T5 A213 Gr. T5	A217 Gr.C5	A182 Gr. F5 A336 CL. F5	A 234 Gr.WP 5	
9 Cr-1 Mo		A33 Gr P9		A199 Gr. T9 A213 Gr. T9	A 217 Gr.C12.	A182 Gr. F9, A336 CL. F9, A350 Gr. LF3	A 234 Gr.WP 9	
3.5Ni	A203 Gr. D,E&F	A333 Gr.3		A334 Gr.3				
12Cr-Al-Type405	A240 Type405	A268 Gr. TP405		A268 Gr. TP405				A 263
13Cr-Type410	A240 Type410	A268 Gr. TP410		A268 Gr. TP410	A717 Gr. CA15	A182 Gr. F6 A336 CL. F6		A 263
13-Type410S	A240 Type 410s							A263
17 Cr- Type 430	A240 Type	A268 Gr. TP430		A268 Gr. TP430				A260
18Cr-8Ni Tpye304	A240 Type 304	A312 Gr. TP304 A376 Gr.TP304	A358 Gr.304	A213 Gr.TP304 A249 Gr. TP304	A351 Gr. CF8 A744 Gr. CF8	A182 Gr. F304 A336 CL. F304	A403 Gr. WP304	A264
18Cr-8 Ni Type 304L	A240 Type 304L	A312 Gr. TP304L	A358 Gr.304L	A213 Gr. TP304L A249 Gr. TP304L	A351 Gr. CF3 A744 Gr. CF3	A182 Gr. F304L A336 CL. F304L	A403 Gr. WP304L	A264
18Cr-8 Ni Type 304H	A240 Type 304H	A312 Gr.TP 304H A376 Gr.TP304H	A358 Gr.304H	A213 Gr. TP304H A249 Gr. TP304H		A182 Gr. F304H A336 CL. F304H	A403 Gr. WP304H	A264

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16 Cr-12 Ni-2 Mo Type 316	A240 Type 316	A312 Gr. TP316 A376 Gr.TP316	A358 Gr.316	A213 Gr.TP316 A249 Gr. TP316	A351 Gr.CF8M A744 Gr.CF8M	A182 Gr. F316 A336 CL. F316	A403 Gr. WP316	A264
16 Cr-12 Ni-2 Mo Type 316L	A240 Type 316L	A312 Gr. TP316 L	A358 Gr.316L	A213 Gr.TP316L A249 Gr. TP316L	A351 Gr.CF3M A744 Gr.CF3M	A182 Gr. F316 L A336 CL. F316 L	A403 Gr. WP316L	A264
16 Cr-12 Ni-2 Mo Type 316H	A240 Type 316H	A312 Gr. TP316 H A376 Gr.TP316H	A358 Gr.316H	A213 Gr.TP316H A249 Gr. TP316H		A182 Gr. F316H, A336 CL. F316H	A403 Gr. WP316H	A264
18 Cr-13 Ni-3 Mo Type 317	A240 Type 317	A312 Gr. TP317		A249 Gr. TP317	A351 Gr.CG-8M A744 Gr. CG-8M	A276 TP317 (Bar Stock)		A264
18 Cr-13 Ni-3 Mo Type 317L	A240 Type 317L	A312 Gr. TP317L					A403 Gr. WP317L	A264
18 Cr-10 Ni-Ti Type 321	A240 Type 321	A312 Gr. TP321 A376 Gr. TP321	A358 Gr. 321	A213 Gr.TP321 A249 Gr. TP321		A182 Gr. F321 A336 CL. F321	A403 Gr. WP321	A264
18 Cr-10 Ni-Ti Type 321H	A240 Type 321H	A312 Gr. TP321H A376 Gr. TP321H		A213 Gr.TP321H A249 Gr. TP321H		A182 Gr. F321H, A336 CL. F321H	A403 Gr. WP321H	A264
18 Cr-10 Ni-Cb Type 347	A240 Type 347	A312 Gr. TP347 A376 Gr. TP347	A358 Gr. 347	A213 Gr.TP347 A249 Gr. TP347	A351 Gr.CG8C A744 Gr. CG8C	A182 Gr. F347, A336 CL. F347	A403 Gr. WP347	A264
18 Cr-10 Ni-Cb Type 347H	A240 Type 347H	A312 Gr. TP347H A376 Gr. TP347H		A213 Gr.TP347H A249 Gr. TP347H		A182 Gr. F347H A336 CL. F347H	A403 Gr. WP347H	A264
18 Cr-12 Ni Type 309	A240 Type 309	A312 Gr. TP309	A358 Gr. 309	A213 Gr. TP309			A403 Gr. WP309	A264
25 Cr-20 Ni Type310	A240 Type 310	A312 Gr. TP310	A358 Gr.310	A213 Gr. TP310 A249 Gr.TP310	A351 Gr. CK-20	A182 Gr. F310 A336 CL. F310	A403 Gr. WP310	A264
Inconel 600 (Ni-Cr-Fe)	B166	B167 B517		B163 Alloy Ni-Cr-Fe B516	A494Gr CY-40	B564 Alloy Ni-Cr-Fe B166 (Bar Stock)	B366 Gr. WPNCI	A265
Inconel 800 (Ni-Cr-Cr)	B409	B407 B514		B163 Alloy Ni-Fe-Cr		B564 Alloy Ni-Fe-Cr B408 (Bar Stock)	B366 Gr. WPNCI	A265
Alloy 20 (Cr-Ni-Fe-Mo-Cu-Cb)	B463	B464	B474	B468	A351 Gr.CK-7M	B462	B366 Gr. WP20Cb	A265
Admiralty	B171 No. C44300, C44400, C44500			B111 No. C44300, C44400, C44500 B395 No. C44300, C44400, C44500				
Naval Brass	B171 No. C46400							
Al. Brass				B111 C68700 B395				
Al. Bronze	B171 No. C61400			B111 60800 B395				B432
90-10 Cu-Ni	B171 No. C70600	B466 No.C70600		B111 No.C70600				B432
80-20 Cu-Ni		B466 No.C71000		B111 No.C71000				
70-30 Cu-Ni	B171 No. C71500	B466 No.C71500		B111 No.C71500				B432
Mone400 (Ni-Cu)	B127	B165		B163 alloy Ni-cu	A494 Gr. M-35-1	B565Alloy Ni-cu B164 (Bar Stock)	B366 Gr. WPNC	A265

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Hastelloy B (Ni-Mo)	B333	B619 Alloy Ni-Mo B622 Alloy Ni-Mo		B627 Alloy Ni-Mo B676 Alloy Ni-Mo	A494 N-MV	B355 (Alloy Rod)	B366 Gr. WPHB	A265
Hastelloy C (Ni-Mo-Cr)		B619 Alloy Low C Ni-Mo-Cr B622 Alloy Low C Ni-Mo-Cr		B622 Alloy Low C Ni- Mo-Cr B626 Alloy Low C Ni-Mo-Cr	A494 Gr. CW-12MW	B574 (Alloy Rod)	B366 Gr. WPHC	A265
Aluminum 3003	B209 Alloy 3003	B241 Alloy 3003 B210Alloy 3003		B234 Alloy 3003		B247 Alloy 3003	A361 Alloy WP3003	
Titanium	B265	B337		B338	B367	B381	B363	