



## MATERIAL CHEMICAL AND PHYSICAL PROPERTIES

CHEMICAL PROPERTIES														PHYSICAL PROPERTIES			
ASTM Specification	GENERAL NAME	C	Mn	P	S	SI	Cr	Ni	Mo	Cu	V	Fe	N	TS (Mps)	YS (Mps)	Elongation%	Reduction%
ASTM A 216 GR. WCB	CS(CAST STEEL)	0.3	1	0.04	0.045	0.6	0.5	0.5	0.2	0.3	0.03	-	-	485-655	250	22	35
ASTM A 352 GR. WCB	LCB	0.3	1	0.04	0.045	0.6	0.5	0.5	0.2	0.3	0.03	-	-	485-655	275	20	35
ASTM A 217 GR. WC6	WC6	0.2	0.8	0.04	0.045	0.6	1.5		0.65	0.5	-	-	-	485-655	275	20	35
ASTM A 217 GR. WC9	WC9	0.18	0.7	0.04	0.045	0.6	2.75		1.2	0.5	-	-	-	485-655	275	20	35
ASTM A 217 GR. C5	C5	0.2	0.7	0.04	0.045	0.75	6.5		0.65	0.5	-	-	-	620-795	415	18	35
ASTM A 217 GR. C12	C12	0.2	0.7	0.04	0.045	0.75	9.5		1	0.5	-	-	-	620-795	415	18	35
ASTM A 351 GR. CF8	SS 304	0.08	1.5	0.04	0.04	2	18.00 to 21.00	8.00 to 11.00	0.5	-	-	-	-	485	205	35	-
ASTM A 351 GR. CF3	SS 304 L	0.03	1.5	0.04	0.04	2	17.00 to 21.00	8.00 to 12.00	0.5	-	-	-	-	485	205	35	-
ASTM A 351 GR. CF8M	SS 316	0.08	1.5	0.04	0.04	1.5	18.00 to 21.00	8.00 to 12.00	2.00 to 3.00	-	-	-	-	485	205	35	-
ASTM A 351 GR. CF3M	SS 316 L	0.03	1.5	0.04	0.04	1.5	17.00 to 21.00	9.00 to 13.00	2.00 to 3.00	-	-	-	-	485	205	30	-
ASTM A 351 GR. CN7M	ALLOY 20	0.07	1.5	0.04	0.04	1.5	19.00 to 22.00	27.5 to 30.5	2.00 to 3.00	-	-	-	-	425	170	35	-
ASTM A 351 CD3MN	DUPLEX 2205	0.03	1.5	0.04	0.04	1	21 to 23	4.5 to 6.5	2.5 to 3.5	-	-		0.1 to 0.3	620	415	25	-
ASTM A 351 GR. CD4MCu	SUPER DUPLEX 2507	0.03	1	0.03	0.025	1	24 to 26	6.5 to 8.5	3 to 4	0.5 to 1	-		0.2 to 0.3	690	450	25	-
ASTM A 494 CY40	INCONEL 600	0.04	1.5	0.03	0.03	3	14 to 17	Max Balance	-	-	-	11		485	195	30	-
ASTM A 494 CW 6MC	INCONEL 625	0.06	1	0.15	0.015	1	20 to 23	Max Balance	8 to 10	-	-	5		485	275	25	-
ASTM A 494 CW 2M	HASTELLOY C-276	0.02	1	0.03	0.03	0.8	15 to 17.5	Max Balance	15 to 17.5	-	-	2		495	275	20	-