



M/s. Chhaganlal Dharamchand Shah

NICKEL ALLOYS																		
COMMON DESCRIPTION	ASTM SPECIFICATION						UNS DESIGN GRADE	CHEMICAL ANALYSIS NOMINAL								NOMINAL MECHANICAL PROPERTIES		
	PLATE	PIPE	FITTINGS	FLANGES/ FORGINGS	CAST VALVES	TUBES		C <	SI <	Mn <	Cr	Mo	Ni	Cu	Others	Tensile min MPa	Yield Point RP 0.2 min MPa	Elongation in 2or4 Dmin.%
Nickel 200	B162	B161 /B725	B366	B160	-	B161/B163	N02200	0.15	0.35	0.35	-	-	99.0min	0.25	Fe 0.40	380-550	80-415	10 - 40
Monel 400	B127	B165	B366	B164/B564	-	B163/B165	N04400	0.3	0.5	2	-	-	63.0 min	28-34	Fe 2.50 max. S 0.024	485-690	195-620	2 - 35
Monel K500	-	-	-	-	-	-	N05500	0.25	0.5	1.5	-	-	63.0-7.00	bal	Al 2.5-3.5, Fe 2.0 max S 0.01 max, Ti 0.35-0.85	880	590	15
Inconel 600	B168	B167 /B517	B366	B166/B564	-	B167/B516	N06600	0.15	0.5	1	14.0-17.0	-	72.0 min	0.5	Fe6.0-10.0, S0.015max	515-825	170-825	7 - 35
Inconel 601	-	-	-	-	-	-	N06601	0.1	0.5	1	21.0-25.0	-	58.0-63.0	1	Al 1.0-1.7, Fe rem	600	240	30
Incoloy 800H	B409	B407 /515	B366	B408/B564	-	B163/B407/ B515	N08810	0.05-0.1	1	1.5	19.0-23.0	-	30.0-35.0	0.75	Al 0.15-0.6, Ti 0.15-0.6 Fe 39.5 min, S0.015max	450	170	30
Incoloy 825	B424	B423 /B705	B366	B425/B564	-	B163/B704	N08825	0.05	0.5	1	19.5-23.5	-	38.0-46.0	1.5-3	Al0.2.max.Ti 0.6-1.2 Fe 22.0min, S 0.03 max	586	241	30
Hastelloy C276	B575	B619 /B622	B366	B574	-	B622/B626	N10276	0.01	0.08	1	14.5-16.5	15.0-17.0	rem	-	Fe 4.0-7.0, W3.0-4.5 Co 2.5 max, V 0.35 max	690	283	40
Hastelloy B2	B333	B619 /B622	B366	B335	-	B622/B626	N10665	0.02	0.1	1	1.0 max	26.0-30.0	rem	-	Fe 2.0 max, Co 1.0 max	760	352	40
904L	B625	B677 /B673	B366	B649	-	B677	N08904	0.02	1	2	19.0-23.0	4.0-5.0	23.0-28.0	1.0-2.0		490	220	35