

Nickel Based Alloys

Alloy Spec			C Min/ Max	Si Min/ Max	Mn	P	S	Cr	Ni	Mo	Cu	Fe	Others
Inconel 657	ASTM A560		0.10	1.00	0.30	0.020	0.02	48.00/ 52.00	Bal			1.00	0.25Al 0.3N 0.5Ti
ASTM A494 CW12MW	ANC16	Hastelloy C276	0.12	1.00	1.00	0.040	0.03	15.50/ 17.50	Bal	16.00/ 18.00		4.50/ 7.50	3.75/5.25 W 0.20/0.40V
Hast B	AMS5396		0.12	1.00	1.00	0.040	0.03	1.00	Bal	26.00/ 30.00		4.00/ 6.00	0.20/0.60V 2.5Co
ASTM A494 CW12MW	Hast C4C		0.02	0.80	1.00	0.030	0.03	15.50/ 17.50	Bal	15.00/ 17.50		2.00	1.00W
INCO 600			0.15	0.50	1.00	0.020	0.02	14.00/ 17.00	>72.00		0.50	6.00/ 10.00	1.5Co 0.30Ti 0.30Al
INCO 601		AMS5870	0.10	0.50	1.00	0.020	0.02	21.00/ 25.00	58.00/ 63.00		1.00	Bal	1.00/ 1.70Al 0.10/ 0.60Ti 0.006B
ASTM A 494 CW6MC	INCO 625	AMS5402	0.10	0.50	0.50	0.02	0.02	20.00/ 23.00	Bal	8.00/ 10.00	0.30	5.00	3.15/4.15 Nb+Ta
ASTM A494 CX2MW	Hast C22		0.02	0.80	1.00	0.03	0.03	20.00/ 22.50	Bal	12.50/ 14.50		2.00/ 6.00	2.50/3.50W 2.5Co 0.35V
INCO 601	2.4851		0.03/ 0.10	0.50	1.00	0.020	0.02	21.00/ 25.00	58.00/ 63.00		0.50	18.00	1.00/1.70Al 0.50Ti 0.006B
INCO 625	AMS 5402		0.06	1.00	1.00	0.02	0.02	20.00/ 23.00	>58.00	8.00/ 10.00	0.30	5.00	3.15/ 4.15 Nb+Ta 0.3Al 0.1Ti 0.10Co
INCO 800	1.4876		0.10	0.70	1.50	0.02	0.01	19.00/ 22.00	30.00/ 32.00		0.50	Bal	0.20/0.50Ti 1.0Nb max 0.3Al max
Hastelloy X	AMS5390	2.4665	0.05/ 0.15	1.00	1.00	0.020	0.02	20.50/ 23.00	Bal	8.00/ 10.00		17.00/ 20.00	0.2/ 1.0W 0.5/ 2.5Co 0.5Al 0.01B
Hastelloy C276			0.01	0.08	1.00	0.030	0.03	14.50/ 16.50	Bal	15.00/ 17.00		4.00/ 7.00	3.00/4.50W 0.20/0.40V 2.5Co
Hastelloy C22	2.4602		0.01	0.08	0.50	0.03	0.02	20.00/ 22.50	Bal	12.50/ 14.50		2.00/ 6.00	2.50/3.50W <2.5Co

Hastelloy is registered trade name of Haynes International
 Inconel is a registered trade name of Special Metals Inc (PCC)