



Chemical Composition Chart

Grade	C	Mn	P	S	Si	Cr	Ni	Mo	N	Cu	Fe	Al	Ti	B	Co	W	Other
Alloy 316L	0.08	2.00	0.04	0.03	0.75	16.0-18.0	10.0-15.0	2.0-3.0									
Alloy 317L	0.035	2.00	0.04	0.03	0.75	17.0-20.0	11.0-15.0	3.0-4.0									
Nitronic 50® / (XM-19)	0.06	4.0-6.0	0.045	0.03	1.0	20.5-23.5	11.5-13.5	1.50-3.00	0.20-0.40								V 0.10-0.30
254 SMO®	0.02	1.0	0.03	0.01	0.8	19.5-20.5	17.5-18.5	6.0-6.5	0.18-0.22								Cu 0.50-1.0
Alloy 20	0.07	2.00	0.045	0.035	1.0	19.0-21.0	32.0-38.0	2.0-3.0									
Nickel 200	0.15	0.35		0.01	0.35		99.0 min			0.25	0.4						
Nickel 201	0.02	0.35		0.01	0.35		99.0 min			0.25	0.4						
Monel® 400	0.30	2.00		0.024	0.50		63.0			28.0-34.0	...						
Inconel® 600	0.15	1.0		0.015	0.50	14.0-17.0	72.0 min			0.5	6.0-10.0						
Inconel® 601	0.10	1.0		0.015	0.50	21.0-25.0	58.0-63.0			1.0	Balance	1.0-1.7					
Inconel® 625	0.10	0.50	0.015	0.015	0.50	20.0-23.0	58.0 min	8.0-10.0		0.3	5.0	0.4	0.4		1.0		Nb+Ta 3.15-4.15
Inconel® 718	0.08	0.35	0.015	0.015	0.35	17.0-21.0	50.0-55.0 + Co	2.8-3.3		0.1	Balance	0.20-0.80	0.65-1.15	0.006	1.0		Nb+Ta 4.75-5.50
Incoloy® 800	0.10	1.50		0.015	1.0	19.0-23.0	30.0-35.0			0.75	39.5 min	0.15-0.60	0.15-0.60				
Incoloy® 800H	0.05-0.10	1.50		0.015	1.0	19.0-23.0	30.0-35.0			0.75	39.5 min	0.15-0.60	0.15-0.60				
Incoloy® 800HT	0.06-0.10	1.50		0.015	1.0	19.0-23.0	30.0-35.0			0.75	39.5 min	Al+Ti 0.85-1.20					
Incoloy® 825	0.05	1.0		0.03	0.50	19.5-23.5	38.0-46.0	2.5-3.5		1.5-3.0	22.0 min	0.2	0.6-1.2				
Alloy 904L	0.02	2.00	0.045	0.035	1.0	19.0-23.0	23.0-28.0	4.0-5.0		1.0-2.0	Balance						
Hastelloy® C-276	0.01	1.0	0.04	0.03	0.08	14.5-16.5	Balance	15.0-17.0			4.0-7.0				2.5	3.0-4.5	V 0.35
AL-6XN®	0.03	2.00	0.04	0.03	1.0	20.0-22.0	23.50-25.50	6.0-7.0	0.18-0.25	0.75	Balance						
Duplex 2205	0.03	2.00	0.03	0.02	1.0	21.0-23.0	4.5-6.5	2.5-3.5	0.08-0.20								
Super Duplex 2507	0.03	1.20	0.035	0.02	0.80	24.0-26.0	6.0-8.0	3.0-5.0	0.24-0.32	0.5							
Titanium	0.10								0.03		0.3		Balance		0.015	0.25	Min. Ti 98.885

Compositions are for reference only, and should not determine the suitability of a material for a specific application.
Values listed are **MAXIMUM**, unless a range or a minimum value is indicated.