

Nominal Chemical Compositions of Nickels and Nickel Alloys

Nominal Composition wt. %							
	Nickel	Copper	Iron	Manganese	Carbon	Silicon	Sulfur
Nickel 200	99.0min	0.25max	0.40max	0.35max	0.15max	0.35max	0.010max
Monel 400	63.0min	28.0-34.0	2.50max	2.00max	0.30max	0.50max	0.024max
Inconel 600	72.0min	0.50max	6.00-10.00	1.00max	0.15max	0.50max	0.015max
Inconel 601	58.0-63.0	1.00max	Bal.	1.00max	0.10max	0.50max	0.015max
Inconel 625	58.0min		5.00max	0.50max	0.10max	0.50max	0.015max
Incoloy 800	30.0-35.0	0.75max	39.50min	1.50max	0.10max	1.00max	0.015max
Incoloy 800H	30.0-35.0	0.75max	39.50min	1.50max	0.05-0.10	1.00max	0.015max
Incoloy 800HT	30.0-35.0	0.75max	39.5min	1.50max	0.06-0.10	1.00max	0.015max
Incoloy 803	32.0-37.0	0.75max	Bal.	1.50max	0.06-0.10	1.00max	0.015max
Incoloy 825	38.0-46.0	1.50-3.00	22.00min	1.00max	0.05max	0.50max	0.03max
C-276	Bal.		4.00-7.00	1.00max	0.01max	0.08max	0.03max
Alloy 020	32.00-38.00	3.00-4.00	Bal.	2.00max	0.07max	1.00max	0.035max
	Cobalt	Aluminum	Titanium	Chromium	Molybdenum	Tungsten	Vanadium
Nickel 200							
Monel 400							
Inconel 600				14.0-17.0			
Inconel 601		1.00-1.70		21.0-25.0			
Inconel 625	1.00max	0.40max	0.40max	20.00-23.00	8.00-10.00		
Incoloy 800		0.15-0.60	0.15-0.60	19.0-23.0			
Incoloy 800H		0.15-0.60	0.15-0.60	19.0-23.0			
Incoloy 800HT		0.85-1.20	0.25-0.60	19.0-23.0			
Incoloy 803		0.15-0.60	0.15-0.60	25.0-29.0			
Incoloy 825		0.20max	0.60-1.20	19.50-23.50	2.50-3.50		
C-276	2.50max			14.50-16.50	15.00-17.00	3.00-4.50	0.35max
Alloy 020				19.00-21.00	2.00-3.00		
	Phosphorus	Niobium+Tantalum					
Nickel 200							
Monel 400							
Inconel 600							
Inconel 601							
Inconel 625	0.015max	3.15-4.15					
Incoloy 800							
Incoloy 800H							
Incoloy 800HT							
Incoloy 803							
Incoloy 825							
C-276	0.04max						
Alloy 020	0.045max	8xC-1.00					