

Nickel Alloy/ Duplex Tubing

Specialty Products

Industries

- Desalination
- Chemical Processing
- Pulp and Paper
- Power Generation

Alloys

- Nickel: 200, 400, 600, 625, 800, 825, 20, 6-Moly, 276, 22, 904L, and many others
- Duplex: 2205
- Super Duplex: 2507
- Lean Duplex: 2101, 2003, 2304

Resists

- Stress Corrosion Cracking
- Chloride Ion Pitting



make the connection

RathGibson's Specialty Products

RathGibson is a key provider of Precision Welded Tubing for such diverse applications as Desalination, Chemical Processing, Pulp and Paper, and Power Generation.

Duplex Alloys (partial listing)

	2205	2507
UNS. No.	S31803	S32750
Elements		
Carbon (C), Max.	0.030	0.030
Manganese (Mn), Max.	2.00	1.20
Phosphorous (P), Max.	0.030	0.035
Sulfur (S), Max.	0.020	0.020
Silicon (Si), Max.	1.00	0.80
Chromium (Cr)	21.0-23.0	24.0-26.0
Nickel (Ni)	4.5-6.5	6.0-8.0
Molybdenum (Mo)	2.0-3.0	3.0-5.0
Nitrogen (N)	0.08-0.20	0.24-0.30
Iron (Fe)	Bal.	Bal.
Copper (Cu), Max.	1.10	0.50

Nickel Alloys (partial listing)

	20	276	22	625	825	904L	6-Moly	6-Moly
UNS. No.	N08020	N10276	N06022	N06625	N08825	N08904	S31254	N08367
Elements								
Nickel (Ni)	32.0-38.0	Bal.	Bal.	58.0 Min. ¹	38.0-46.0	23.0-28.0	17.5-18.5	23.5-25.5
Chromium (Cr)	19.0-21.0	14.5-16.5	20.0-22.5	20.0-23.0	19.5-23.5	19.0-23.0	19.5-20.5	20.0-22.0
Iron (Fe)	Bal.	4.0-7.0	2.0-6.0	5.0 Max.	22.0 Min.	Bal.	Bal.	Bal.
Molybdenum (Mo)	2.0-3.0	15.0-17.0	12.5-14.5	8.0-10.0	2.5-3.5	4.0-5.0	6.0-6.5	6.0-7.0
Titanium (Ti), Max.	-	-	-	0.4	0.6-1.2	-	-	-
Aluminum (Al), Max.	-	-	-	0.4	0.2	-	-	-
Cobalt (Co), Max.	-	2.5	2.5	1.0	-	-	-	-
Tungsten	-	2.5-3.5	2.5-3.5	-	-	-	-	-
Vanadium	-	0.35	0.35	-	-	-	-	-
Copper (Cu), Max.	3.00-4.00	-	-	0.75	1.50-3.00	-	0.50-1.00	0.75
Manganese (Mn), Max.	2.0	1.0	0.5	0.5	1.0	2.0	1.0	2.0
Niobium (Nb) ^{2,3}	8xC-1.0	-	-	3.15-4.15	-	-	-	-
Carbon (C), Max.	0.070	0.010	0.015	0.100	0.050	0.020	0.020	0.030
Nitrogen (N), Max.	-	-	-	-	-	0.10	0.18-0.25	0.18-0.25
Silicon (Si), Max.	1.00	0.08	0.08	0.50	0.50	1.00	0.80	1.00
Sulfur (S), Max.	0.035	0.030	0.020	0.015	0.030	0.035	0.010	0.030
Phosphorous (P)	0.045	0.040	0.020	0.015	-	0.045	0.030	0.040

(1) Plus Cobalt, (2) Plus Titanium, (3) also known as Columbium (Cb)

The information herein was correct at the time of publication and is subject to change without notice.

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