



AMERITUBE LLC, Founded 2004 / 1000 N.HWY 77 HILLSBORO, TEXAS 76645

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MIKE WEISE 107 Seneca Place Mars, PA 16046 P 412.585.6297 / E opendie@me.com

COPPER ALLOY GRADE CHART

Alloy Group	Alloy UNS No.*	Chemical Analysis %									Density		Temper**	Tensile Rm (min)		Yield Rp 0.2%	
		Cu	Fe	Pb	As	Sn(1)	Zn	Mn	Ni(2)	Other	g/cm3	lb/in3		ksi	MPa	ksi	MPa
Copper Alloys	DHP Copper C12200	99.9 min								P .015- .040	8.94	0.323	ANN	36	250	30	205
	Red Brass C23000	84.0- 86.0	.05	.05							8.75	0.316	ANN	40	275	12	85
	Admiralty brass C44300	70.0- 73.0	.06	.07	.02- .06	.8-1.2	Rem.				8.53	0.308	ANN	45	310	15	105
	C68700	76.0- 79.0	.06	.07	.02- .06		Rem.			Al 1.8-2.5	8.33	0.301	ANN	50	345	18	125
	C72200	Rem.	.50- 1.0	.05			1.0	1.0	15.0- 18.0		8.94	0.323	ANN	45	310	16	110
	Copper Nickle 90/10 C70600	Rem.	1.0- 1.8	.05			1.0	.07	9.0- 11.0		8.94	0.323	ANN	40	275	15	105
	Copper Nickel 70/30 C71500	Rem.	.40- 1.0	.05			1.0	1.0	29.0- 33.0		8.94	0.323	ANN	52	360	18	125

* Specialty Copper Alloys are available upon request. ** Hard drawn and light drawn tempers also available.

SEAMLESS PRESSURE TUBING RANGE OF SIZES

Outside Diameter		Minimum Wall																		
mm		0.71	0.89	1.2	1.5	1.7	1.8	2.1	2.4	2.7	2.8	3.0	3.4	3.8	4.0	4.2	4.8	5.2	5.6	6.4
	in.	0.028	0.035	0.049	0.060	0.065	0.072	0.083	0.095	0.105	0.109	0.120	0.134	0.150	0.156	0.165	0.180	0.203	0.219	0.250
6.35	0.250																			
9.525	0.375																			
12.7	0.500																			
15.9	0.625																			
19.1	0.750																			
22.2	0.875																			
25.4	1.000																			
31.8	1.250																			
38.1	1.500																			
41.3	1.625																			
42.2	1.660																			
44.5	1.750																			
48.3	1.900																			
50.8	2.000																			
57.2	2.250																			
60.3	2.375																			
63.5	2.500																			
69.9	2.750																			
73.0	2.875																			
76.2	3.000																			

For sizes not shown on this chart, please inquire about availability.

Standard size range Available by Custom Order



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NICKEL ALLOY GRADE CHART

Alloy Group	Alloy UNS No*	WNR	Chemical Analysis %										Density		Temper**	Tensile Rm (min)		Yield Rp 0.2% (min)		Elong. % min	Hardness HV
			C	Mn	Ni	Cr	Fe	Mo	Ti	Nb	N	Other	g/cm ³	lb/in ³		ksi	MPa	ksi	MPa		
Stainless Steel	304L S30403	1.4036	0.035 max	2.0 max	8.0-11.0	18.0-20.0	bal						7.93	0.286	ANN	70	485	25	170	35	200 max
	316L S31603	1.4404	0.035 max	2.0 max	10.0-13.0	16.0-18.0	bal	2.0-2.5					7.93	0.286	ANN	70	485	25	170	35	200 max
		1.4435						2.5-3													
	347 S34700	1.4546	0.080 max	2.0 max	9.0-12.0	17.0-19.0	bal			10XC-1.00		-0.600	7.93	0.286	ANN	75	515	30	205	35	200 max
	Duplex S31803	1.4462	0.030 max	2.0 max	4.5-6.5	21.0-23.0	bal	2.5-3.5			0.08-0.20		7.8	0.281	ANN	90	620	65	450	25	290 max
	Super Duplex S32750	1.441	0.030 max	1.2 max	6.0-8.0	24.0-26.0	bal	3.0-5.0			0.24-0.32	Cu 0.5 max	7.79	0.28	ANN	116	800	80	550	15	310 max
Nickel Alloys	Super Duplex S32760	1.4501	0.020	1.0 max	6.0-8.0	24.0-26.0	bal	3.0-4.0			0.24-0.32	Cu 0.50 W 0.50	7.70	0.278	ANN	109	750	73.5	507	35	310 max
	Alloy 200 N02200	2.4065	0.15 max	0.4 max	99.0 min		0.4 max					Cu 0.25 max	8.9	0.321	ANN	75	515	15	105	33	150 max
	Alloy 276 N102276	2.4819	0.02 max	1.0 max	bal	14.5-16.5	4.0	15.0-17.0				W 3.0-4.5	8.9	0.321	ANN	100	690	41	283	40	210 max
	Alloy 400 N04400	2.4360	0.30 max	2.0 max	63.0-70.0		2.5 max					Cu bal	8.83	0.319	ANN	70	480	28	195	35	180 max
	Alloy 600 N06600	2.4816	0.15 max	1.0 max	72.0 min	14.0-17.0	6.0-10.0					Cu 0.50 max	8.42	0.304	ANN	80	550	35	240	30	300 max
	Alloy 625 N06625	2.4856	0.10 max	0.5 max	bal	20.0-23.0	5.0 max	8.0-10.0	0.40 max	3.15-4.15	0.40 max		8.44	0.305	ANN	120	827	60	414	30	260 max
	Alloy 800 N08800	1.4876	0.15 max	1.5 max	30.0-35.0	19.0-23.0	39.5 min		0.15-0.60		0.15-0.60	Cu 0.75 max	8	0.289	ANN	75	517	30	207	30	200 max
	Alloy 800H N08810	1.4876	0.05-0.10	1.5 max	30.0-35.0	19.0-23.0	39.5 min		0.15-0.60		0.15-0.60	Cu 0.75 max	8.08	0.292	ANN	75	517	30	207	30	200 max
	Alloy 800HT N08811	1.4876	0.06-0.10	1.5 max	30.0-35.0	19.0-23.0	39.5 min		0.15-0.60		0.15-0.60	Al + Ti 0.85-1.20	7.94	0.287	ANN	75	517	30	207	30	200 max
Nickel Alloys	Alloy 825 N08825	2.4858	0.05 max	1.0 max	38.0-46.0	19.5-23.5	bal	2.5-3.5	0.6-1.20		0.20 max	Cu 1.5-3.0	8.1	0.292	ANN	85	586	35	241	30	209 max

