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Copper Chemical Composition

Properties/Materials	Main Chemical Composition			Resistivity (200C $\mu\Omega\text{m}$)	Max Working Temperature ($^{\circ}\text{C}$)	Tensile Strength(Mpa)	Elongation	Melting Point	Density (g/cm3)
	Ni	Mn	Cu						
NC003 (CuNi1)	1 /		rest	0.03 \pm 10%	200	>210	>25	1085	8.9
NC005 (CuNi2)	2 /		rest	0.05 \pm 10%	200	>220	>25	1090	8.9
NC010 (CuNi6)	6 /		rest	0.10 \pm 10%	220	>250	>25	1095	8.9
NC012 (CuNi8)	8 /		rest	0.12 \pm 10%	250	>270	>25	1097	8.9
NC015 (CuNi10)	10 /		rest	0.15 \pm 10%	250	>290	>25	1100	8.9
NC020 (CuNi14)	14.2 /		rest	0.2 \pm 5%	300	>310	>25	1115	8.9
NC025 (CuNi19)	19 /		rest	0.25 \pm 5%	300	>340	>25	1135	8.9
NC030 (CuNi23)	23 /		rest	0.3 \pm 5%	300	>350	>25	1150	8.9
NC035 (CuNi30)	30 /		rest	0.35 \pm 5%	350	>400	>25	1170	8.9
NC040 (CuNi34)	34 /		rest	0.4 \pm 5%	350	>400	>25	1180	8.9
NC050 (CuNi44)	44 /		rest	0.5 \pm 5%	400	>420	>25	1200	8.9

Chemical Composition(%)								
C	Mn	S	Si	Ni	Cu	Fe		
10.9max	2.00 max	0.024 max	0.50 max	56.0 min	28	2.50 max		
ASTM Specifications								
Pipe Smls	Pipe Welded	Tube Smls	Tube Welded	Sheet/Plate	Bar	Forging	Fitting	Wire
B165	B725	B163		B127	B164	B564	B366	
Mechanical Properties								
Item	Density	Melting point	Tensile Strength	Yield Strength				
mone1400	8.83g/cm3	1300-1390 $^{\circ}\text{C}$	480	170				
Item	Elongation							
mone1400	0.35							