

Copper Nickel - NES 879 DEFSTAN 02-879 (70/30)

Round Tube

Properties

Stock		Chemical Properties	
OD (mm) x Thk (mm)	Weight/m (Kg)	Element	Chemical composition %
6 x 1.0	0.15	Copper (Cu)	Remainder
8 x 1.5	0.29	Nickel (Ni)	29.0 - 32.0 max
12 x 0.8	0.27	Manganese (Mn)	0.5 - 1.5 max
12 x 2.5	0.71	Iron (Fe)	0.6 - 1.0 max
16 x 1.5	0.65	Mechanical Properties	
16 x 3.0	1.17		
20 x 1.0	0.57		
20 x 3.5	1.73	Property	Value
25 x 1.5	1.19	Proof stress	120 min MPa
30 x 1.5	1.28	Tensile strength	330 min MPa
30 x 1.5	1.68	Elongation	34%
30 x 4.0	3.11	Physical Properties	
30 x 5.0	3.74		
38 x 1.5	1.64		
38 x 4.0	4.07	Property	Value
38 x 5.0	4.94	Density	8.95 Kg/m ³
38 x 6.5	6.13	Thermal conductivity	29 W/m.K
44.5 x 1.5	2.17	Melting range	1170 - 1240 °C
44.5 x 4.0	4.85		
50 x 6.5	8.46		
57 x 1.5	2.49		
57 x 5.0	7.78		
57 x 7.5	11.11		
57 x 9.5	13.50		
76.1 x 2.0	4.44		
76.1 x 6.0	12.58		
88.9 x 2.5	6.50		
108 x 2.5	7.90		
108 x 7.5	22.55		

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