

Copper Nickel - NES 779 DEFSTAN 02-779 (90/10)

Round Tube

Properties

Stock		Chemical Properties	
OD (mm) x Thk (mm)	Weight/m (Kg)	Element	Chemical composition %
6 x 0.8*	0.11	Copper (Cu)	86.0 - 88.50
6 x 1.0	0.14	Nickel (Ni)	10.0 - 11.0
8 x 0.8	0.16	Iron (Fe)	1.0
8 x 1.0	0.20	Manganese (Mn)	0.50 - 1.0
12 x 0.8	0.25	Others (total)	0.22
12 x 1.0	0.31		
12 x 3.0	0.76		
16 x 1.0	0.42		
16 x 1.5	0.63		
16 x 3.0	1.09		
20 x 1.0	0.53		
20 x 2.0	1.06		
25 x 1.5	0.99		
25 x 2.0	1.32		
30 x 1.5	1.19		
30 x 2.0	1.56		
30 x 4.0	2.91		
38 x 1.5	1.53		
38 x 2.0	2.01		
44.5 x 1.5	1.80		
44.5 x 2.0	2.38		
57 x 1.5	2.33		
57 x 2.0	3.07		
57 x 2.5*	3.84		
76 x 2.0	4.14		
76 x 2.5	5.14		
89 x 2.0*	4.86		
89 x 2.5	6.04		
89 x 3.0	7.29		
108 x 2.5	7.37		
108 x 3.0	8.80		
133 x 2.5	9.21		
133 x 3.0*	10.90		
159 x 2.5*	10.93		
159 x 3.0	13.08		
267 x 4.0	29.40		
324 x 4.0	35.76		
* Only available in 90/10			
BS2871/EN12449:1999			
Only available in 90/10			
BNES779 PT3 DEFSTAN 02-779			

Mechanical Properties	
Property	Value
Proof stress	120 min MPa
Tensile strength	280 min MPa
Elongation	30%

Physical Properties	
Property	Value
Density	8.90 Kg/m ³
Thermal conductivity	49.0 W/m.K
Melting range	1100 - 1145 °C

Disclaimer

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