

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

Round Bar

Properties

Stock		Chemical Properties	
Dia (mm)	Weight/m (Kg)	Element	Chemical composition %
25	4.35	Copper (Cu)	Remainder
30	6.28	Nickel (Ni)	29.0 - 32.0 max
35	8.60	Manganese (Mn)	0.5 - 1.5 max
40	11.14	Iron (Fe)	0.6 - 1.0 max
45	14.10		
50	17.50		
55	21.12		
60	25.20		
65	29.52		
70	34.41		
75	39.50		
80	48.20		
85	50.74		
90	56.80		
95	62.85		
105	76.75		
110	84.23		
120	100.25		
130	117.65		
140	136.26		
160	178.21		
170	201.20		
180	225.55		
200	278.46		
230	368.26		

Mechanical Properties	
Property	Value
Proof stress	120 min MPa
Tensile strength	330 min MPa
Elongation	34%

Physical Properties	
Property	Value
Density	8.95 Kg/m ³
Thermal conductivity	29 W/m.K
Melting range	1170 - 1240 °C

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