

# Copper Nickel - NES 835 DEFSTAN 02-835

## Round Bar

## Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical composition %
1 1/4	7.18	Copper (Cu)	74.3 - 81.3
1 1/2	10.20	Nickel (Ni)	13.5 - 16.5
1 7/8	17.00	Iron (Fe)	0.70 - 1.20
2	18.20	Manganese (Mn)	3.50 - 5.50
2 1/4	22.10	Aluminium (Al)	1.00 - 2.00
2 1/2	28.80	Chromium (Cr)	0.0 - 0.50
65mm	29.52		
2 3/4	34.50		
3	41.00		
80mm	44.82		
90mm	56.80		
95mm	62.85		
4	69.72		
4 1/4	79.00		
4 1/2	88.23		
135mm	127.00		
6	157.00		
6 1/2	190.00		

  

Mechanical Properties	
Property	Value
Proof stress	430 min MPa
Tensile strength	725 min MPa
Elongation	18% min

  

Physical Properties	
Property	Value
Density	8.50 Kg/m <sup>3</sup>
Thermal conductivity	16.3 W/m.K

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