

SPECIFICATIONS

Aerospace	DEFSTAN 02-879
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Copper Nickel 70/30 is stronger than the more common copper nickel 90/10 and is able to withstand corrosion at higher velocities in marine applications, making it the favourable choice in submarine systems. Righton Blackburns carries the UK's largest range of product in this alloy.

CHEMICAL COMPOSITION

NES 879 DEFSTAN	
Element	% Present
Nickel (Ni)	29 - 32
Manganese (Mn)	0.5 - 1.5
Iron (Fe)	0.6 - 1
Copper (Cu)	Balance

ALLOY DESIGNATIONS

70/30- NES 780/ Def Stan 02780
C71500
CN107
CuNi30
Def Stan 02879 Pt 2

SUPPLIED FORMS

- Sheet
- Bar
- Plate
- Rod
- Forgings
- Pipe
- Castings
- Fittings & Flanges

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	895 g/cm ³
Melting Point	1170-1240 °C
Thermal Conductivity	29.0 W/m.K

MECHANICAL PROPERTIES

Property	Value
Proof Stress	120 MPa
Tensile Strength	330 MPa
Elongation A50 mm	34 %

CONTACT

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REVISION HISTORY

Datasheet Updated	18 July 2019
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