

Copper Nickel 90/10 is the most commonly used wrought copper alloy for marine engineering and can be found in seawater systems for naval, commercial shipping and the oil and gas markets due its good strength, corrosion resistance and inherent resistance to biofouling in salt water environments. Righton Blackburns offers the full selection of products in this alloy, including pipe and fittings to cover all applications.

CHEMICAL COMPOSITION

NES 779 DEFSTAN	
Element	% Present
Copper (Cu)	86 - 88.5
Nickel (Ni)	10 - 11
Iron (Fe)	1 typical
Manganese (Mn)	0.5 - 1
Others (Total)	0.22 max

ALLOY DESIGNATIONS

UNS N05500 : BS 3076 NA18 : ASTM B865

SUPPLIED FORMS

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

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	890 g/cm ³
Melting Point	1100-1145 °C
Thermal Conductivity	49.0 W/m.K

MECHANICAL PROPERTIES

Property	Value
Proof Stress	120 MPa
Tensile Strength	280 MPa
Elongation A50 mm	30 %

CONTACT

Address:	1 Newman Park Western Way Wednesbury WS10 7BJ
Tel:	+44 (0)1527 405 618
Email:	info@amariprecisiontubes.com
Web:	https://www.amariprecisiontubes.com/

REVISION HISTORY

Datasheet Updated	18 July 2019
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