

NES 833 DEFSTAN 02-833

**Chemical Properties**

Element	Chemical composition %
Iron (Fe)	4.20 typical
Aluminium (Al)	9.30 typical
Manganese (Mn)	0.30 typical
Nickel (Ni)	4.20 typical
Copper (Cu)	Balance

**Mechanical Properties**

Property	Value
Proof stress	400 - 530 MPa
Tensile strength	600 - 760 Mpa
Elongation A50 mm	15 - 5%
Hardness Vickers	170 to 220 HV

**Physical Properties**

Property	Value
Density	7.5 Kg/m <sup>3</sup>
Thermal Conductivity	42 W/m.K
Electrical Resistivity	0.172 x 10 <sup>-6</sup> Ω.m

**Product Forms**

Hexagon Bar

Round Bar

**Disclaimer**

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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