

Scott Precision Wire Ltd Units 2-4 Caldey Road, Roundthorn Ind Estate, Wythenshawe, Manchester, M23 9GE, United Kingdom Telephone: +44 (0) 161 9985533

www.ScottPrecisionWire.com

Cumin 11

Cumin 11 is a copper based alloy with additions of manganese and nickel, with a very low EMF against copper.

- Particularly suited for DC circuitry with its low temperature coefficient.
- A low density reduces weight requirements.
- Excellent use in custom made thermocouple applications.
- Also for electric resistance standards, precision wire wound resistors etc.

Physical and Mechanical Properties

	Units	
Maximum continuous operating temperature in air	°C	850
Nominal composition	%	Ni 4
		Mn 11
		Cu Bal.
Density at 20°C	g/cm³	8.40
Resistivity at 20°C	μΩcm	43
Thermal conductivity at 20°C	W/mK	22
Specific heat capacity at 20°C	kJ/kgK	0.410
Melting point (approx.)	့ ပ	1020
Tensile strength R _m , 1 mm wire – annealed	N/mm²	390
Elongation at break, 1 mm wire - annealed	%	30

Temperature dependant Factors for Cumin II Reference temperature 20°C

Temp °C	15-35
Temp °F	59 - 35
Resistivity Coefficient (10 ⁻⁶ /K)	0 ± 15
Coefficient of thermal expansion (10 ⁻⁶ /K)	18 (for 100°C)

The figures given in these tables represent nominal or typical values.

Information contained within this technical data sheet is based upon the general experience of Scott Precision Wire Ltd and is believed to be correct at the time of issue. No warranty is given or is to be implied from the details above. Customers are advised to carry out independent tests in order to determine the suitability of any Scott Precision Wire Ltd product for an application.