Scott Precision Wire
End to end

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Cupronic 12

Cupronic 12 is a specially developed alloy of Copper and Nickel which, when used with Pure Copper, forms a thermocouple compensating material with thermal e.m.f characteristics similar to Platinum Rhodium 10% (S) and 13% (R).

E.m.f.

Material is normally produced to provide an e.m.f. to BS EN 60584-1, Type R or S with tolerances to BS EN 60584-3. International and other national specifications are available on request.

Physical and Mechanical Properties

	Units	
Nominal composition	%	Cu 95 Ni 3 Mn 2
Density at 20°C	g/cm³	8.9
Resistivity at 20°C	μΩcm	12
Temperature Coefficient of Resistance, 20 – 100°C	1/K	0.003
Coefficient of thermal expansion, 20 – 100°C	1/K	18×10^{-6}
Melting point (approx.)	°C	1080

The figures given in this table represent nominal or typical values.