



SHREE EXTRUSIONS LIMITED



CuNi11 Resistance Wire

CuNi11 is a copper-nickel alloy (CuNi alloy) with medium-low resistivity for use at temperatures up to 400 °C (750 °F).

CuNi11 is typically used for applications such as heating cables, fuses, shunts, resistors and various types of controllers.

Sizes available: As per Customer specification

CHEMICAL COMPOSITION

	Ni %	Cu %
Nominal composition	11.0	Bal.

MECHANICAL PROPERTIES

Wire size	Yield strength	Tensile strength	Elongation
∅	Rp0.2	Rm	A
mm	MPa	Mpa	%
1.00	130	300	30

PHYSICAL PROPERTIES

Density g/cm ³	8.9
Electrical resistivity at 20 °C Ω mm ² /m	0.15

TEMPERATURE FACTOR OF RESISTIVITY

Temperature °C	20	100	200	300	400
Ct	1.00	1.035	1.07	1.11	1.15

THERMAL CONDUCTIVITY

Temperature °C	20
W m-1 K-1	60

SPECIFIC HEAT CAPACITY

Temperature °C	20
kJ kg-1 K-1	0.380
Melting point °C	1100
Max continuous operating temperature in air °C	400
Magnetic properties	The material is non-magnetic

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