

Metal Alloys Corporation





CuNi6 Resistance Wire

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS DESIGNATION Eropean

CuCr1Zr CuCr1Zr CC 102

CuNi6 is a copper-nickel alloy (CuNi alloy) with low resistivity suitable for use at temperatures up to 300°C (570°F).

Wire in CuNi6 is typically used for low-temperature applications such as heating cables.

Sizes available: As per Customer specification

CHEMICAL COMPOSITION

	Ni %	Cu %
Nominal composition	6.0	Bal.

MECHANICAL PROPERTIES

Wire size	Yield strength	Tensile strength	Elongation
Ø	Rp0.2	Rm	A
mm	MPa	Мра	%
1.00	110	280	30

PHYSICAL PROPERTIES

Density g/cm3	8.9
Electrical resistivity at 20°C Ω mm2/m	0.10

TEMPERATURE FACTOR OF RESISTIVITY

Temperature °C	20	100	200	300
Ct	1.00	1.06	1.11	1.19

THERMAL CONDUCTIVITY

Temperature °C	20
W m-1 K-1	90

SPECIFIC HEAT CAPACITY

Temperature °C	20
kJ kg-1 K-1	0.380
Melting point °C	1095
Max continuous operating temperature in air °C	300
Magnetic properties	The material is non-magnetic

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