

NiMn2 STRIP

DATASHEET

NiMn2 is a nickel/manganese grade for use at temperatures up to 1000°C. The grade is used for electrical resistor terminations.

The addition of Mn to pure nickel brings much improved resistance to sulphur attack at elevated temperatures and improves strength and hardness, without appreciable reduction of ductility.

CHEMICAL COMPOSITION (NOMINAL)

CHEMICAL COMPOSITION (NOMINAL) %

Mn	Ni
2	

Balance Ni.

MECHANICAL PROPERTIES

Yield strength	Tensile strength	Elongation
R _{p0.2}	R _m	
MPa	MPa	%
230	440	35

PHYSICAL PROPERTIES

Density g/cm ³	8.81
Electrical resistivity at 20°C, Ω mm ² /m (Ω cmf)	≤0.11 [66]

Coefficient of thermal expansion

Temperature °C	Thermal Expansion x 10 ⁻⁶ / K
20 - 100	13

Thermal Conductivity

Temperature °C	100
W m ⁻¹ K ⁻¹	41

Specific heat capacity

Temperature, °C	20
$\text{kJ kg}^{-1} \text{K}^{-1}$	0.46
Melting point, °C	1435
Magnetic properties	The material is slightly magnetic.

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