

GlobeHeat Datasheet : Product Code GHT 9202



Product Description: Nickel Chrome (NiCr) 60/16, 19 Strand Heater Core Wire, 500m roll

Heater core wire for the repair and manufacture of ceramic pad heating elements.

Applications

For heat treatment applications where the ceramic pad heating elements are required to operate at temperatures up to 1050°C.

The higher coefficient of resistance rates it suitable only for less exacting applications than 80/20 NiCr heater core wire.

Specification	
Core wire material	80/20 Nickel Chrome (NiCr)
Construction	19 Strand wire made up of 18 x 0.523mm diameter strands around 1 x 0.57mm king wire
Resistance	0.276 to 0.304 Ω per m
Unit of measure	500m roll
Weight of 500m roll	19kg
Nominal chemical composition	Ni:60%, Cr:18%; Si:1.7%; Mn:1%; C:0.1
Specific heat capacity at 800°C	0.63 $\text{kJ kg}^{-1} \text{K}^{-1}$
Thermal conductivity at 50°C	24 $\text{W m}^{-1} \text{K}^{-1}$
Melting point	1390°C
Recommend maximum operating temperature	1050°C
Electrical resistivity at 20°C Ω	1.11 $\Omega \text{ mm}^2/\text{m}$
Thermal Expansion at 20°C to 750°C	16 x 10 ⁻⁶ K