NiCr35/20 Data Sheet

Introduction

NiCr35/20 is recommended to be used in dry air applications up to 2150 degrees Fahrenheit that is with good hot strength. It is an alloy of nickel and chromium with high electrical resistance which can be used for resistance heating elements and can also be used in electrical heating applications.

Chemical & Physical Properties

Ni	Cr	Fe
34-37	18-21	42-48

Applications

- Industrial furnaces
- Electrical appliance industry
- Medical diagnostics, satellite, and aerospace
- Ironing machines, water heaters, plastic moulding dies, soldering irons, metal sheathed tubular elements, cartridge elements

Deposit Characteristics

Max Continuous Service Temperature(°C)	1100
Resistivity 20oC (Ωmm2/m)	1.04±
Density (g/cm3)	7.9
Thermal Conductivity(KJ/m·h·°C)	43.8
Melting Point(°C)	1390
Elongation (%)	> 20
Weak magnetic	Weak magnetic
Coefficient of Thermal Expansion(α×10-6/°C)	19

Standard Dimensions

Wire	**Diameter (mm)**	**Tolerance (mm)**
	1.6, 2.0, 3.17	+ 0 / - 0.05

Other sizes (diameter and wire weight) can be manufactured accordingly to the requirements of customers.

Packaging

Spool	15kgs(33 lbs) / spool (D300 spool)
Coil	20 - 400kgs / coil