

Introduction

NiCr80/20 nickel-chromium system shows that chromium is quite soluble in nickel. At the eutectic temperature it can maximum at 47% and drops off to about 30% at room temperature. Series of commercial alloys are all based on this solid solution. Such alloys have excellent resistance to high temperature oxidation, corrosion and good wear resistance.

Equivalent: Tafa06C

Chemical & Physical Properties

Ni	Cr	Density	Melting point °C	Electrical Resistivity at 20°C Ω mm ² /m
Bal.	≥20.0	8.3g/cm ³	1400	1.09

Applications

- Oxidation resistance
- Heating elements
- Therm couples
- High temperature corrosion resistant alloys
- Wear resistant alloys

Deposit Characteristics

Typical Hardness	HRB 90
Bond Strength	7300 PSI
Deposit Rate	11 lbs/hr/100A
Deposit Efficiency	65-75%
Machine ability	Good

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