

Introduction

Wisdom Nickel is a high purity nickel wire that specifically designed for arc spraying. Wisdom Nickel produces dense, well-bonded coatings with excellent machine ability, electrical conductivity and corrosion resistance. It is widely used for machine element repair applications which requires high corrosion resistance.

Equivalent: Tafa 06T, Oeirlkon, Metco Nickel, PMET806

Chemical & Physical Properties

Ni	Si	Fe	Mn
≥99.5	≤0.2	≤0.25	≤0.3

Applications

- Pump plungers
- Pump sleeves
- Shafts
- Impellers
- Castings

Deposit Characteristics

Typical Hardness	HB 50-60
Bond Strength	5000 PSI
Deposit Rate	10lbs/hr/100A
Deposit Efficiency	70%
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