



## TH200 Nickel

### DESCRIPTION

TH200 is a high purity nickel wire specifically designed for arc spraying. TH200 produces dense, well-bonded coatings with excellent machinability, electrical conductivity and corrosion resistance. It is widely used for machine element repair applications requiring high corrosion resistance.

### TYPICAL DEPOSIT CHARACTERISTICS:

- Bond Strength 5000 psi
- Typical Hardness HRB 50-60
- Deposit Rate 18 lbs./hr./150-200 Amps
- Deposit Efficiency 70%
- Wire Coverage 2 sq. ft./lbs. @ 12 mils
- Surface Texture Variable
- Machinability Good

### SURFACE PREPARATION:

Surface should be clean, white metal, with no oxides (rust), dirt, grease, or oil on the surface to be coated. NOTE: It is best not to handle surfaces after cleaning. Recommended method of preparation is, to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe. \*Thermion recommends a 3.5 mil minimum anchor tooth profile.

### Applications:

#### Resurface:

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

### NOMINAL CHEMICAL COMPOSITION (wt. %):

Ni
99.0

### RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	80-100 psi	28-32	100-300	4-7" (10-17cm)

Parameters are typical and may vary depending on equipment used.

### STANDARD SIZES & PACKAGING:

Diameter	Packaging
1/16 (1.6mm)	25# spool