

**Data Sheet** 

# TH257 Nickel Copper

### DESCRIPTION

TH257 is specifically designed for spraying in arc spray systems. It produces well-bonded coatings with excellent machinability. TH257 has good corrosion resistance, especially in sea water and caustic environments.

### **TYPICAL DEPOSIT CHARACTERISTICS:**

- Typical Hardness HRB 84
- Deposit Rate
  I8 lbs./hr./I50-200 Amps

Good

- Deposit Efficiency 70%
- Wire Coverage 2 sq. ft./lbs. @ 12 mils
- Corrosion Resistance
- 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:**

Machine element restoration Sea water immersion Propellers Steam valve components Printing rolls

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

Ni	Cu	Mn	Fe
65.0	31.0	1.2	1.7

### **RECOMMENDED SPRAY PARAMETERS:**

Diameter	Air Pressure	Voltage	Amperage	Standoff
I/I6" (I.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	
I/I6 (I.6mm)	25# Spool	
I/8 (3.2mm)	25# Coil	