

## PRODUCT OVERVIEW

**PMET 599** is a high purity copper wire specifically designed for arc spraying. It produces dense, well bonded coatings with excellent machinability. It is widely used for electrical conductivity and printing roll applications.

### TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Electrical Conductivity	Good
⇒ Thermal Conductivity	Good
⇒ Typical Hardness:	HRB 40
⇒ Bond Strength:	2000 psi
⇒ Deposit Rate:	10 lbs/hr/100A
⇒ Deposit Efficiency	75%
⇒ Wire Coverage:	0.9 oz/ft <sup>2</sup> / mil
⇒ Surface Texture	*Variable
⇒ Machinability	Good

\* Depends on air pressure used

### 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.

### APPLICATION

- ⇒ Electrical Conductivity
- ⇒ Printing Rolls
- ⇒ Decorative Purposes

### NOMINAL CHEMICAL COMPOSITION (wt%)

**Cu**  
98.0

### RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*50-60 psi	*28-31	*100-200	*4-8 in (10-20 cm)

Parameters are typical for most arc spray systems. Contact the equipment manufacturer for specific system parameters

### STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	30 lb LWS	599062LWS00