

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 ² / 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