

**P♦MET 599**  
Arc Spray Wire

**DESCRIPTION**

**P♦Met 599** is a high purity copper wire specifically designed for arc spraying. It produces dense, well-bonded coatings with excellent machineability. 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> / m
- Surface Texture              \*Variable
- Machineability                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

**SPECIFICATION:**

Copper

**NOMINAL CHEMICAL COMPOSITION (wt%):**

**Cu**  
98.0

**RECOMMENDED SPRAY PARAMETERS:**

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*50 - 60 psi	*28 - 30	*100 - 200	*4 - 8 in (10 - 20cm)

\* Parameters are typical and may vary depending on equipment used. Contact your equipment manufacture for optimum spray parameters.

**STANDARD SIZES & PACKAGING:**

<b>Diameter</b> 1/16 (1.6mm)	<b>Packaging</b> 25# LLWS	<b>Part Number</b> 599062LWS01
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