

P♦MET 699
Arc Spray Wire

DESCRIPTION

P♦Met 699 is a 99.5% pure aluminum wire specifically designed for arc spraying. It produces dense, well bonded coatings with excellent corrosion resistance, electrical conductivity and machineability. **P♦Met 699** is used widely for atmospheric and immersion corrosion applications, electrical conductivity applications and dimensional restoration of aluminum based components.

TYPICAL DEPOSIT CHARACTERISTICS:

- Typical Hardness HRB 65
- Bond Strength 4300 psi
- Deposit Rate 6 lbs /hr/100A
- Deposit Efficiency 65%
- Wire Coverage 0.3 oz/ft² / 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
- High Temperature Corrosion
- Aluminum Pattern Restoration
- Aluminum Casting Repair
- Decorative Purposes

SPECIFICATION:

Aluminum

NOMINAL CHEMICAL COMPOSITION (wt%):

Al
99.5

RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*40 - 60 psi	*28 - 30	*50 - 300	*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:

Diameter 1/16 (1.6mm)	Packaging 25# LLWS	Part Number 699062LWS01
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The properties listed are typical and not to be construed as guaranteed values. Actual properties may vary depending on customer operating conditions. Polymet makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in Polymet's terms and conditions.