

## PRODUCT OVERVIEW

**PMET 699** is a 99.5% pure aluminum wire specifically designed for thermal spraying. It produces dense, well bonded coatings with excellent corrosion resistance, electrical conductivity and machinability.

**PMET 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/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

- ⇒ Dimensional Restoration
- ⇒ 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	*100-300	*4-5 in (10-20 cm)

### STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	22# LWS	699062LWS01 (lubricated) 699062LWS00 (un-lubricated)