

## PRODUCT OVERVIEW

**PMET 692** is a solid wire specifically designed for arc spray systems. It produces dense, well bonded coatings with excellent machinability.

**PMET 692** exhibits higher hardness and density than coatings produced with pure aluminum. PMET 692 is used for dimensional restoration of aircraft engine parts and other aluminum based components.

### TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Typical Hardness:	HRB 70-75
⇒ Bond Strength:	5100 psi
⇒ Deposit Rate:	6 lbs/hr/100A
⇒ Deposit Efficiency	70%
⇒ 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

⇒ Dimensional Restoration

### SPECIFICATION

Honeywell FP5045 Type VIII Aluminum Silicon  
MIL-W-6712C, Table II, Silicon Aluminum

### NOMINAL CHEMICAL COMPOSITION (wt%)

Al	Si
Balance	4.5-6.0

### RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*50-60 psi	*28-30	*100-200	*3-6 in (8-15 cm)

### STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	22# LWS	692062LWS00