

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 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

⇒ 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