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P♦Met 692 Aluminum – 6 Silicon Wire**DESCRIPTION**

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

P♦Met 692 exhibits higher hardness and density than coatings produced with pure aluminum. P♦Met 692 is used in the dimensional restoration and repair of jet engine components and other aluminum based components.

TYPICAL COMPOSITION

Element	Wt. %
Aluminum	Balance
Silicon	5.2 %

SPECIFICATIONS

P♦Met 692 meets the following specifications: Honeywell FP5045 Type VIII, Aluminum-Silicon MIL-W-6712C, Table II, Silicon Aluminum

SPRAY PARAMETERS

The parameters listed below are typical and will vary depending on equipment. Contact your equipment manufacturer for your optimum parameters.

Wire Size	0.0625 in. (1.6 mm)
Amperage	75 – 200 amps
Voltage	28 – 30 volts
Air Pressure	50 – 60 psi
Standoff	4 - 6 inches
Deposition Rate	6 pounds/hour/100 amps
Deposition Efficiency	65 percent
Bond Strength	5100 psi
Wire consumption (Coverage)	0.3 oz/sq ft/mil thickness
Hardness	70-75 Rb

SURFACE PREPARATION

The surface shall be clean freshly exposed metal. Grit blasting (24 mesh aluminum oxide), rough grinding, or rough cutting is recommended to increase the bond strength..