

## PRODUCT OVERVIEW

**PMET 709** is a carbon steel wire, copper coated and specifically designed for arc spraying. It produces dense, well bonded coatings with excellent wear resistance, and is widely used for machine element repair, dimensional restoration and wear resistant applications. PMET 709 low shrink characteristics allow for increased coating thickness.

## TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRB 95-100
- ⇒ Bond Strength: 5800 psi
- ⇒ Deposit Rate: 10 lbs/hr/100A
- ⇒ Deposit Efficiency: 80%
- ⇒ Wire Coverage: 0.8 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

- ⇒ Part Restoration
- ⇒ Seating Surfaces
- ⇒ Press Fit Surfaces

## NOMINAL CHEMICAL COMPOSITION (wt%)

Al	Si	C	Fe
0.8	0.2	0.15	Bal

## RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*50-60 psi	*28-30	*100-300	*4-7 in (10-17 cm)

## STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	33# LWS	709062LWS00