

## PRODUCT OVERVIEW

**PMET 273** is a cored wire specifically designed for arc spray systems. It produces a partially amorphous, hard, abrasive and corrosion resistant coating, with a service environment up to 1700° F. High chrome like finishes can be obtained by typical grinding and lapping techniques. PMET 273 is used in a wide variety of high wear applications, anti-skid surfacing applications and corrosive environments.

## TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRC 55-60
- ⇒ Bond Strength: 6000 psi
- ⇒ Deposit Rate: 10 lbs/hr/100A
- ⇒ Deposit Efficiency: 70%
- ⇒ Wire Coverage: 1.0 oz/ft<sup>2</sup> / mil
- ⇒ Surface Finish: Grind \*\*

## 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.

\*\* Grind using Aluminum Oxide

## APPLICATION

- ⇒ Boiler tubes & tube shields
- ⇒ Yankee Dryer Rolls
- ⇒ Anti-skid
- ⇒ Fan blades
- ⇒ Drill collars

## NOMINAL CHEMICAL COMPOSITION (wt%)

Cr	B	Mn	Si	Fe
29.0	3.7	1.7	4.6	Bal

## RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	*50-60 psi	*29-32	*100-200	4-8 in (10-20 cm)

\* Parameters are typical and may vary depending on equipment used. Contact your equipment manufacturer for optimum spray parameters

## STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	25# LWS	273062LWS01