

PRODUCT OVERVIEW

PMET 720 is a 420 stainless steel wire, specifically designed for thermal spraying. PMET 720 forms a dense, well bonded coating, with excellent wear resistance and good corrosion resistance. It is widely used for machine elements repair, dimensional restoration, and wear resistant applications. PMET 720's low shrink rate characteristics allows for increased coating thickness on parts requiring heavier coatings.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Abrasion Resistance	Excellent
⇒ Corrosion Resistance	Good
⇒ Typical Hardness:	HRC 35-45
⇒ Bond Strength:	7100 psi
⇒ Deposit Rate:	10 lbs/hr/100A
⇒ Deposit Efficiency	70%
⇒ Wire Coverage:	0.8 oz/ft ² / mil
⇒ Coating Shrink Rate	Low
⇒ Service Temperature	Up to 550C 1022 F

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

- ⇒ Paper Rolls
- ⇒ Part Restoration
- ⇒ Corrosion/Wear

NOMINAL CHEMICAL COMPOSITION (wt%)

Cr	Si	Mn	C	Fe
13.0	1.0	1.0	0.3	Bal

RECOMMENDED ARC SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16" (1.6mm)	50-60 psi	28-30	100-200	4-6 in (10-15 cm)

STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16" (1.6mm)	25# LWS	720062LWS00
1/8" (3.17 mm)	50# Coils	720125COIL00