Technical Datasheet

PMET 723 / 18/5 Stainless

June 2024

PRODUCT OVERVIEW

PMET 723 is an 18/5 stainless steel wire specifically designed for arc spraying. It produces dense, well-bonded coatings with excellent machinability and wear and corrosion resistance. PMET 723 is widely used for machine element repair, dimensional restoration and wear resistance applications.

TYPICAL DEPOSIT CHARACTERISTICS:

⇒ Typical Hardness:	HRB 90-95
⇒ Bond Strength:	4350 psi
⇒ Deposit Rate:	10 lbs/hr/100A
⇒ Deposit Efficiency	80%
⇒ Wire Coverage:	0.8 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

⇒ Parts Restoration
⇒ Rams
⇒ Food Industry Rolls

SPECIFICATION

18/5 SS

NOMINAL CHEMICAL COMPOSITION (wt%)

Cr	Mn	Ni	Si	Fe
18.0	8.0	5.0	0.5	Bal

RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16” (1.6mm)	*50-60 psi	*28-30	*100-300	3-6 in (8-15 cm)

STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16” (1.6mm)	25# LWS	723062LWS00

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