

P♦MET 297 Arc Spray Wire

DESCRIPTION

P♦Met 297 is a cored wire specifically designed for arc spray systems. It is a titanium and tungsten carbide alloy in an amorphous matrix. **P♦Met 297** produces a hard, abrasive and corrosion resistant coating, with a service environment of up to 1000° F. **P♦Met 297** is used in a wide variety of industrial high wear applications.

TYPICAL DEPOSIT CHARACTERISTICS:

- Abrasion Resistance Good
- Typical Hardness HRC 65
- Bond Strength 5000 psi
- Deposit Rate 10 lbs /hr/100A
- Deposit Efficiency 70%
- Wire Coverage 1.0 oz/ft² / m
- Surface Texture *Variable
- Machineability No

* 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:

- Fan Blades
- Boiler Tubes
- Other High Wear Application

SPECIFICATION:

Tungsten Carbide

NOMINAL CHEMICAL COMPOSITION (wt%):

WC	Cr	TiC	Ni	B	Si	Fe
26.0	13	6.0	6.0	2.0	1.0	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 - 20cm)

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

STANDARD SIZES & PACKAGING:

Diameter	Packaging	Part Number
1/16 (1.6mm)	25# LLWS	297062LWS01

The properties listed are typical and not to be construed as guaranteed values. Actual properties may vary depending on customer operating conditions. Polymet makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in Polymet's terms and conditions.