

## PRODUCT OVERVIEW

**PMET 876** is a high purity nickel-chrome-moly-tungsten (Alloy C-276) wire specifically designed for arc spraying. It produces dense, well-bonded coatings with good resistance to corrosion, and stress cracking in caustic, acidic and chloride mediums. It's high hardness makes it very resistant to abrasion and metal wear.

### TYPICAL DEPOSIT CHARACTERISTICS:

- ⇒ Typical Hardness: HRC 35
- ⇒ Bond Strength: 7000 psi
- ⇒ Deposit Rate: 10 lbs/hr/100A
- ⇒ Deposit Efficiency: 70%
- ⇒ Wire Coverage: 0.8 oz/ft<sup>2</sup> / mil
- ⇒ Surface Texture \* Variable

\* 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

- ⇒ Corrosion resistance
- ⇒ Pump casings
- ⇒ valves

## NOMINAL CHEMICAL COMPOSITION (wt%)

| Ni   | Cr   | Mo   | Fe  | W   |
|------|------|------|-----|-----|
| 60.0 | 15.0 | 16.0 | 5.0 | 4.0 |

## RECOMMENDED SPRAY PARAMETERS:

| Diameter      | Air Pressure | Voltage | Amperage | Standoff          |
|---------------|--------------|---------|----------|-------------------|
| 1/16" (1.6mm) | *50-60 psi   | *29-32  | *100-300 | *3-8 in (8-20 cm) |

## STANDARD SIZES & PACKAGING:

| Diameter      | Packaging | Part Number |
|---------------|-----------|-------------|
| 1/16" (1.6mm) | 25# LWS   | 876062LWS00 |