

# WISDOM Thermal Spray Consumables

## Other alloy



### Molybdenum Wire

### DATA SHEET

November 2015

#### DESCRIPTION:

Wisdom moly wire is a pure (99.95%) molybdenum wire specifically designed for arc spraying. It produces dense, well-bonded coatings with excellent wear resistance and good corrosion resistance. It is particularly effective for applications where scuffing or galling is a problem, such as piston rings, shift forks and synchronizing rings

#### TYPICAL DEPOSIT CHARACTERISTICS:

- Typical Hardness HRC 15-20
- Bond Strength 7900 psi
- Deposit Rate 10 lbs /hr/100A
- Deposit Efficiency 75%
- Wire Coverage 1.1 oz/ft<sup>2</sup> /m
- Surface Texture \*Variable
- Machine ability Good

#### 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:

- Wear Resistant Coatings
- Corrosion Resistance

#### CHEMICAL COMPOSITION (wt%):

Mo  
99.95

#### RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
3.17mm	50 - 60 psi	32 - 34	100 - 250	*3 – 6in (8- 15cm)

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

#### STANDARD SIZES & PACKAGING:

Diameter	Dimension Tolerance	Packing	Wire Weight
1/16"(1.6mm)	+0/-0.05	Coil Form	10-50kgs/coil
2.0mm	+0/-0.05	Coil Form	10-50kgs/coil
1/8"(3.17mm)	+0/-0.05	Coil Form	10-50kgs/coil