

Nickel - Boron - Silicon Powder Suitable for Use with the
Plasma Transferred Arc Process

EuTroLoy[®] 5056



COATING

- Specifically designed for use in the Glass Mold Industry
- For specific use on aluminum-bronze parts, but may be used on some nickel and iron parts
- Coatings exhibit excellent machinability



DESCRIPTION:

CPW 5056 is a nickel-boron-silicon alloy powder suitable for use with the plasma transferred arc process. The coatings produced are specifically designed for use on glass mold parts such as bottoms, baffles and guides. EutroLoy 5056 was specifically developed for use on aluminum bronze parts but may be used successfully on nickel and iron alloy base metals as well.

Coatings of 5056 are of moderate hardness and exhibit excellent machinability. Process parameters are specific to the PTA torch and system employed, as well as, the chemistry, mass and geometry of the base metal being coated.

APPLICATIONS:

Industry: Glass Mold manufacture and repair
Applications: Aluminum bronze bottoms and baffles, nickel alloy guides, high alloy cast iron bottoms and baffles

TECHNICAL DATA:

Typical Coating Properties

Apparent Density: 4.6 g/cc
Hall Flow Rate: 14 seconds/50 grams

Typical Powder Properties

Macrohardness: HRC 20 (dependent on base metal dilution)
Coating Density: 8.5 g/cc
Melting Point: 1950° F

EQUIPMENT:

EuTroLoy 5056 powder is made for use in Eutectic's GAP 400, GAP 2001, GAP 3001 and GAP 3002 PTA equipment. It is also capable of being used with some manual torch applications. Please contact Eutectic to determine which GAP and/or torch equipment is right for your coating needs.

HEALTH & SAFETY:

Observe normal spraying practices, respiratory protection and proper air flow pattern advised. For general spray practices, see AWS Publications AWS C2. 1-73, "Recommended Safe Practices for Thermal Spraying and AWS TSS-85, "Thermal Spraying, Practice, Theory and Application." Thermal spraying is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before starting spray operations. DO NOT operate your spraying equipment or use the spray material supplied, before you have thoroughly read the equipment instruction manual.

Refer to the Eutectic web site for Material Safety Data Sheet (MSDS) information.

DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH



Eutectic Castolin develops and manufactures PTA welding units and accessories in various models and sizes either as standard units or as special developments. Our team of technicians will be able to design with you the cost effective and tailor made solution that fits your specific application. From power source to feed unit, welding torch, even handling devices or robots when required, we take care of all the details.

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