

Nickel-Base Alloy Powder for the Plasma Transferred Arc (PTA) Process

EuTroLoy[®] 16220



COATING

- Specially developed for the glass mold industry
- Spherically shaped to ensure highest purity
- Resistant to most high pH, wet environments
- May be applied with a manual torch



DESCRIPTION:

EuTroLoy 16220 is a nickel-base alloy powder developed specifically for coating cast iron parts via the Plasma Transferred Arc (PTA) process. Although developed for use on cast iron glass mold parts, EuTroLoy 16220 is also well suited for use in applications where a high nickel content coating is appropriate. Coatings of 16220 are moderate in hardness and may be machined using conventional production tooling.

The chemistry and particle size of EuTroLoy 16220 is carefully controlled to insure consistent high quality coating properties. The powder can be applied via manual torch but is best suited for automation application.

PROCEDURE FOR USE:

For some applications a modest pre-heat may be required. The degree is dependent on the shape and dimensions of the part and the thickness of the deposit. Surfaces should be clean, white metal, with no oxides (rust), dirt, grease, or oil in the coating area.

TECHNICAL DATA:

Typical Coating Properties

Nominal Hardness:	HRC 27
Density:	0.30 lb/in ³ (8.34 g/cc)
Max Service Temp.:	1,000°F (538°C)
Machinability:	Excellent using conventional tooling
Corrosion Resistance:	Wet, caustic service environments

Typical Powder Properties

Melting Point: 2050°F (1120°C)

APPLICATIONS:

- Glass Mold Parts
- Bottoms
- Guides
- Baffles
- Rings
- Buttering Pass
- Valve Seats (Non-Potable Water Service)

EQUIPMENT:

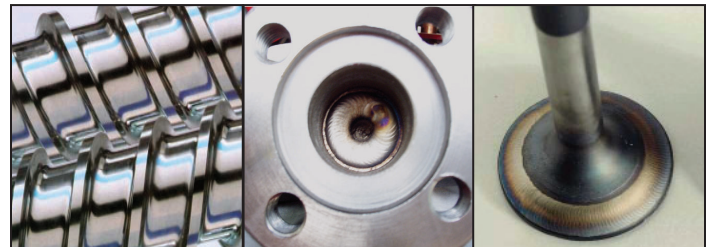
EuTroLoy 16220 powder is made for use in Eutectic's GAP 400, GAP 2001, GAP 3001 and GAP 3002 PTA equipment. It is also capable of being used with some manual torch applications. Please contact Eutectic to determine which GAP and/or torch equipment is right for your coating needs.

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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