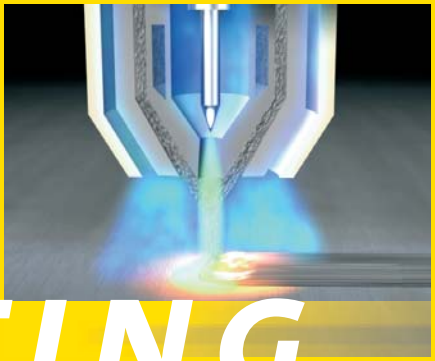
Gas Atomized, Nickel Alloy Powder for the Plasma Transferred Arc (PTA)Process

EuTroLoy® 16483






COATING

- Specially developed for the plasma transferred arc process
- Spherically shaped to ensure highest purity
- Consistant powder distribution through equipment
- Excellent abrasive protection

Castolin Eutectic®
Eutectic Castolin

DESCRIPTION:

16483 is a blended powder designed for use with the plasma transferred arc (PTA) process. The powder consists of two components, a moderately hard atomized nickel-chromium alloy powder and extremely hard tungsten carbide particles. The coatings produced offer a moderately hard matrix with a uniform distribution of carbide particles. The result is a coating which offers a unique combination of resistance to abrasion and resistance to impact. Additionally, 16483 has very good resistance to sliding, grooving, sliding grain and rolling grain wear. 16483 also exhibits good corrosion resistance.

TECHNICAL DATA:

POWDER PROPERTIES:

Composition: Ni-Cr-B-Si alloy + 35% Tungsten Carbide
Hall Flow Rate: 15 - 20 Seconds/50 grams
Apparent Density: 4.3 - 4.7 g/cc
Melting Point: 2250° F (1230° C)

COATING PROPERTIES:

Matrix Hardness: HRC 45
Coating Hardness: HRC 49 - 56
Density: 9.5 g/cc

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. Please contact Eutectic Technical Services for more information.

APPLICATIONS:

- Decanter and transport screws
- Extrusion screws
- Mixer parts
- Drilling tools
- Mouthpieces for trace presses
- Woodworking tools

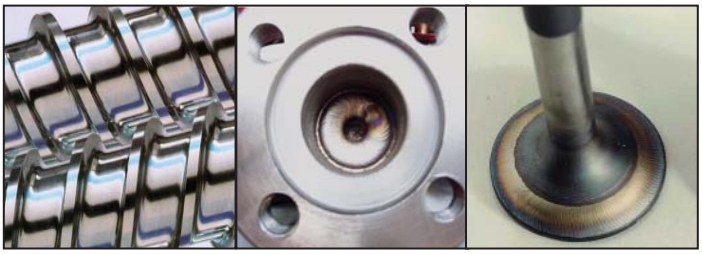
EQUIPMENT:

Made for use in Eutectic's GAP plasma transferred arc equipment. Please contact Eutectic to determine which GAP 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.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS

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