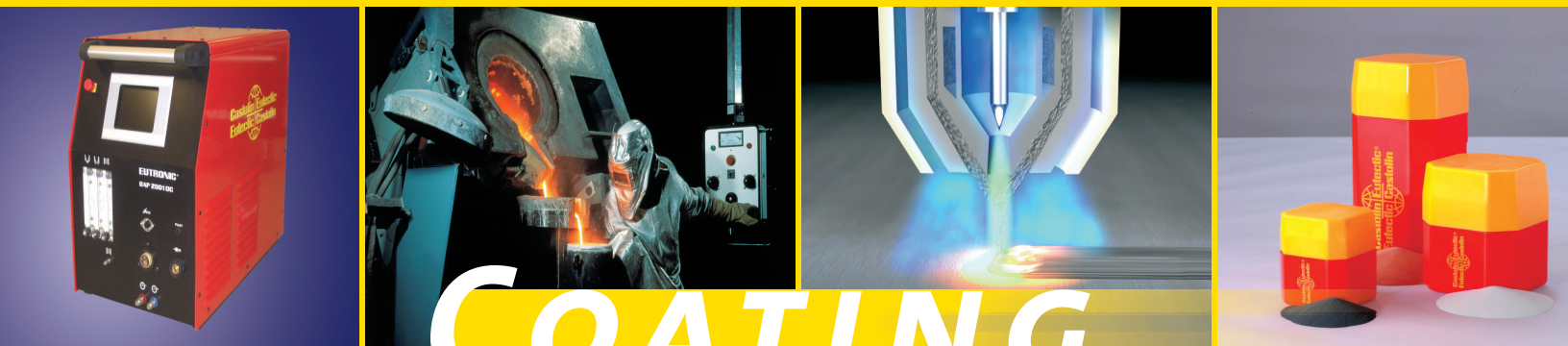


Gas-Atomized Alloy Powder for the Plasma Transferred Arc (PTA) Process

# EuTroLoy® 16001



## COATING

- Spherically shaped to ensure highest purity
- Low oxygen content
- Good resistance to abrasion, corrosion and heat
- Good metal to metal friction properties



## DESCRIPTION:

The powder alloy EuTroLoy 16001 has been specially developed to meet the metallurgical and physical standards of the plasma transferred arc (PTA) process. EuTroLoy 16001 is a pre-alloyed powder. It is manufactured by gas atomisation to have a spherical shape and to ensure the highest purity, in particular to keep a low oxygen content. The spherical shape and the grain-size distribution of the particles ensures a regular flow of powder through the equipment.

Hyper-eutectic structure with a high density of primary carbides. Good resistance to abrasion combined with pressure, corrosion and heat. Good metal-metal friction properties.

## PROCEDURE FOR USE:

Preheat followed by slow cooling is necessary for a crack-free deposit. The preheat temperature depends on the dimensions and shape of the part and the deposit.

## TECHNICAL DATA:

Nominal Composition (mass %): C, Cr, W, Co  
Powder Morphology: Pre-alloyed, homogeneous, spherical particles of uniform composition.

|                           | Minimum | Nominal        |
|---------------------------|---------|----------------|
| Hardness Undiluted(HRC):  | 52      | 56             |
| Max. Service Temperature: | -       | 1382°F (750°C) |

Other size ranges can be supplied on request.

## APPLICATIONS:

Extruder screws for plastics containing abrasive materials, pump-shaft bearings, rubber-mixer rotors and paddles, heavy-duty roller bearings, slide valves, heavily stressed swivel joints

## EQUIPMENT:

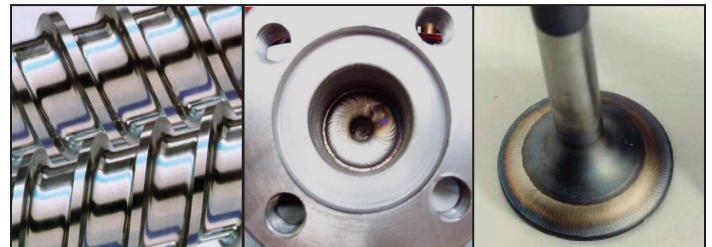
EuTroLoy 16001 powder is made for use in Eutectic's GAP 400, GAP 2001, GAP 3001 and GAP 3002 PTA equipment. It is also capable of being used with some manual torch applications. Please contact Eutectic to determine which GAP and/or torch equipment is right for your coating needs.

## 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 most 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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