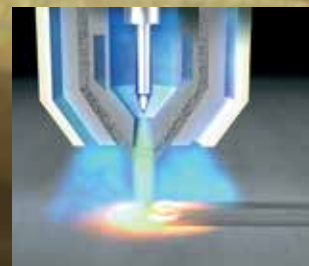




Gas Atomized Alloy Powder for the  
Plasma Transferred Arc (PTA) Process

# EuTroLoy 16012



- Spherically shaped to ensure highest purity
- Excellent to high temperature oxidization
- Good friction properties
- Good resistance to corrosion and abrasion under heavy pressure

# EuTroLoy 16012

EuTroLoy 16012 has been specially developed to meet the metallurgical and physical standards of the plasma transferred arc (PTA) process. The alloy characteristics, combined with the regularity and efficiency of the process, give: Constant high quality deposits. Very low dilution of the base metal. High deposition speed.

EuTroLoy 16012 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. Excellence resistance to high-temperature oxidation. Good resistance to corrosion and abrasion, even under heavy pressure. Good friction properties.

## TECHNICAL DATA

Typical Values	Minimum	Nominal
Hardness Undiluted:	43 HRC	46 HRC
Max. Service Temperature:	-	1382°F (750°C)

Nominal Composition: C, Cr, W, Co

Powder Morphology: Pre-alloyed, homogeneous, spherical particles of uniform composition

Other size ranges can be supplied on request.

### Equipment

Made for use in Eutectic's GAP plasma transferred arc 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.

## 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.

## TYPICAL APPLICATIONS

- Extruder screws for plastics
- Conveyor screws
- Machinery for cutting and crushing organic waste
- Steam valve components

To ensure a safe work environment observe normal welding practices, provide appropriate eye, hearing, skin and respiratory protection and pay attention to air flow patterns. For general weld practices, refer to ANSI Z49.1:2012 - "Safety in Welding, Cutting, and Allied Processes". Welding is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before starting operations. DO NOT operate your equipment or use the material supplied, before you have thoroughly read the equipment instruction manual. Contact Eutectic for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



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