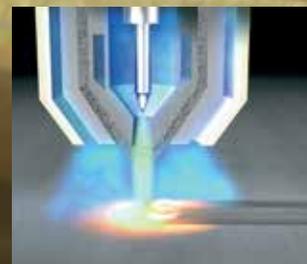




Gas Atomized Alloy Powder for the
Plasma Transferred Arc (PTA) Process

EuTroLoy 16800



- Specially developed for the plasma transferred arc process
- Spherically shaped to ensure highest purity
- Consistent powder distribution through equipment
- Excellent resistance to acidic corrosion

EuTroLoy 16800

EuTroLoy 16800 is specifically designed for use with the plasma transferred arc (PTA) process. The powder is manufactured by gas atomization. As a result, the particle shape is spherical and the oxygen content is minimal. Both characteristics insure good powder flow properties through the equipment and high quality, pore-free deposits. The particle size range is carefully controlled to enhance these characteristics.

Coatings of EuTroLoy 16800 are suitable for a wide range of applications where resistance to acid corrosion (ex. phosphoric, sulfuric, organic) or high temperature oxidation are required. The high chromium and molybdenum content of the powder make 16800 coatings extremely resistant to stress cracking in caustic environments.

In addition, 16800 can be used to provide a "buttering" layer for subsequent top-coating by a more crack sensitive coating.

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.

Coatings of EuTroLoy 16800 can be machined using carbide tool bits. Grinding is recommended to achieve the best finish.

TECHNICAL DATA

Typical Values	Minumim	Nominal
Typical Hardness Undiluted:	20 HRC	25 HRC
Max. Service Temperature:	1650°F (≈ 900°C)	

Composition: C, W, Cr, Fe, Mo, Ni

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

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.

TYPICAL APPLICATIONS

Coatings are suitable for use on a wide range of parts (fittings) common to chemical plants, paper mills, and fertilizer plants. Examples:

- Kneader Blades
- Press Dies
- Valve Seats
- Buttering Layer (oilfield tools)

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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