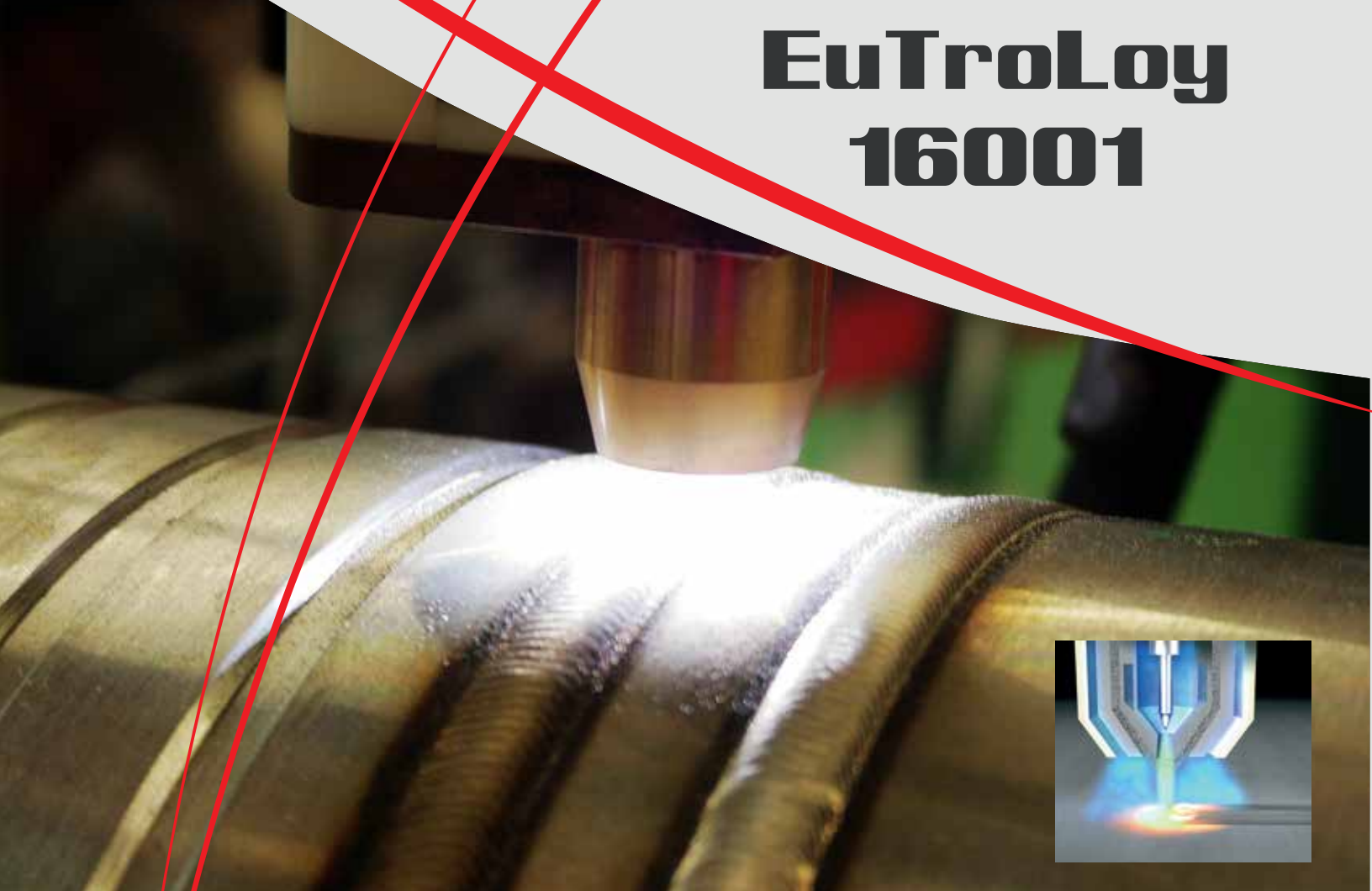




Gas Atomized Alloy Powder for the
Plasma Transferred Arc (PTA) Process

EuTroLoy 16001



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

EuTroLoy 16001

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.

TECHNICAL DATA

Typical Values	Minimum	Nominal
Hardness Undiluted:	52 HRC	56 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 containing abrasive materials, pump-shaft bearings, rubber-mixer rotors and paddles, heavy-duty roller bearings, slide valves, heavily stressed swivel joints.

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.

