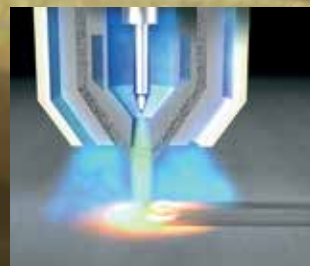
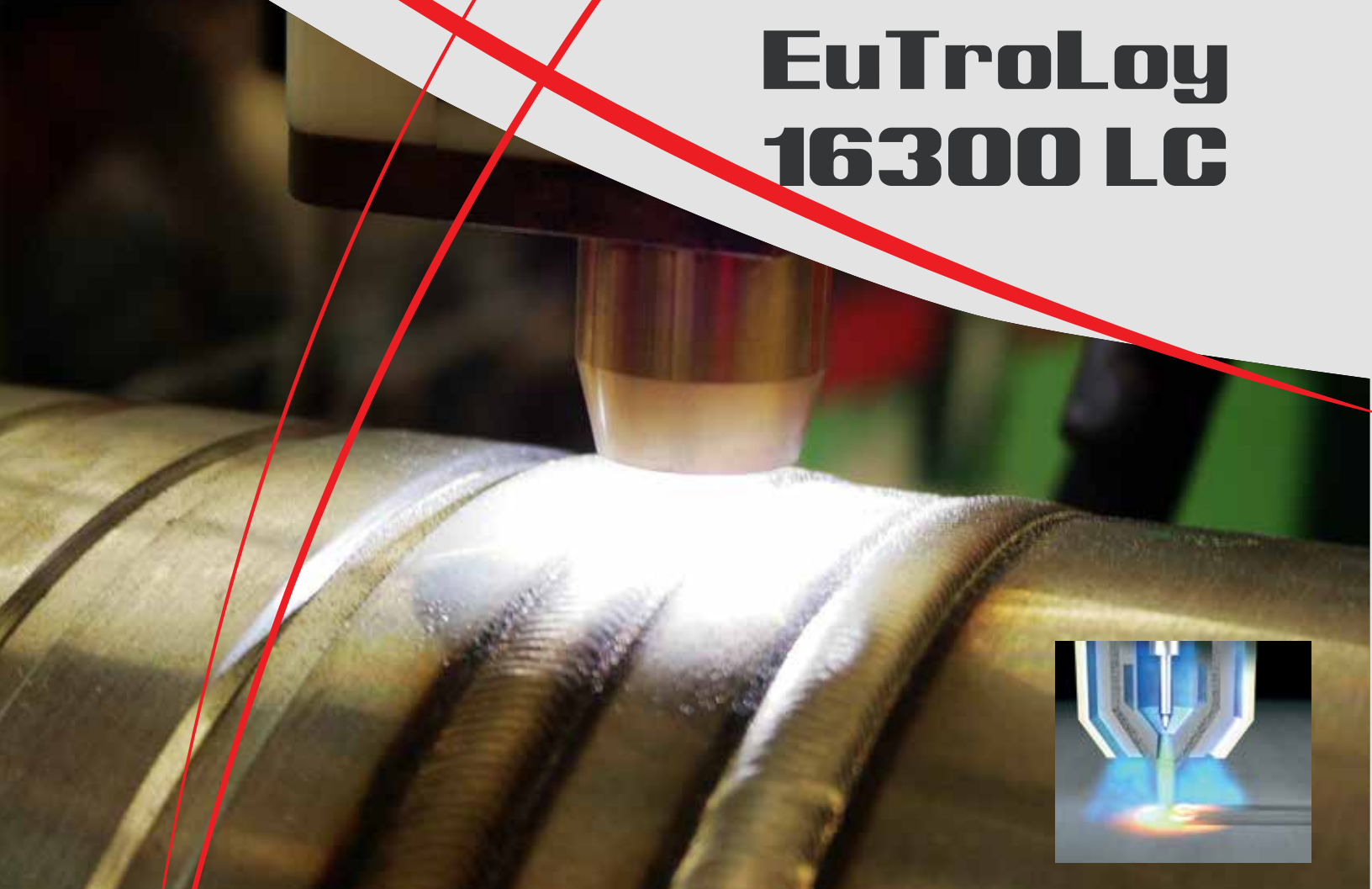




Austenitic Stainless Powder for the
Plasma Transferred Arc (PTA) Process

EuTroLoy 16300 LC



- Conforms to A.I.S.I. 316l
- Machinable with conventional tooling
- Excellent corrosion resistance
- Use as buffer layer or top coating
- Low coefficient of friction
- Excellent high temperature scaling resistance

EuTroLoy 16300 LC

TECHNICAL DATA

EuTroLoy 16300 LC is a Type 316L stainless steel designed for application via the plasma transferred arc welding process. The coatings produced are moderately soft and can be machined with conventional tooling.

Eutroloy 16300 LC can be used as a buttering layer for subsequent overlay with a harder, more wear resistant top coat or it can be used as a final coating for applications requiring resistance to corrosion.

Type 316L stainless steel deposits will exhibit excellent resistance to general corrosion, pitting, crevice corrosion and stress corrosion cracking. In addition, coating of

Eutroloy 16300 LC will exhibit excellent resistance to scaling up to the maximum service temperature.

| Typical Values | |
|-----------------------------------|--------------------------------------|
| Macro Hardness: | 80 HRB |
| Micro Hardness: | 160 Vickers |
| Max. Service Temperature: | 1700°F (925°C) |
| Density: | 8.0 g/cc (0.289 lb/in ³) |
| Coefficient of Thermal Expansion: | 9.0 X 10 ⁻⁶ in/in/F |
| Machinability: | Use Conventional Carbide Tooling |

Note: Deposit will work harden

Composition: C, Si, Cr, Ni, Mo, Mn, Fe Balance

Melting Point Range: 2510 - 2550°F (1375 - 1400°C)

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.

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.

TYPICAL APPLICATIONS

APPLICATIONS

- Machine Element Repair
- Mis-machined Parts
- Pump Parts
- Seal Rings
- Screw Flights

TYPICAL INDUSTRIES

- Utilities
- Chemical Processing
- Marine
- Waste Management
- Pulp & Paper

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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