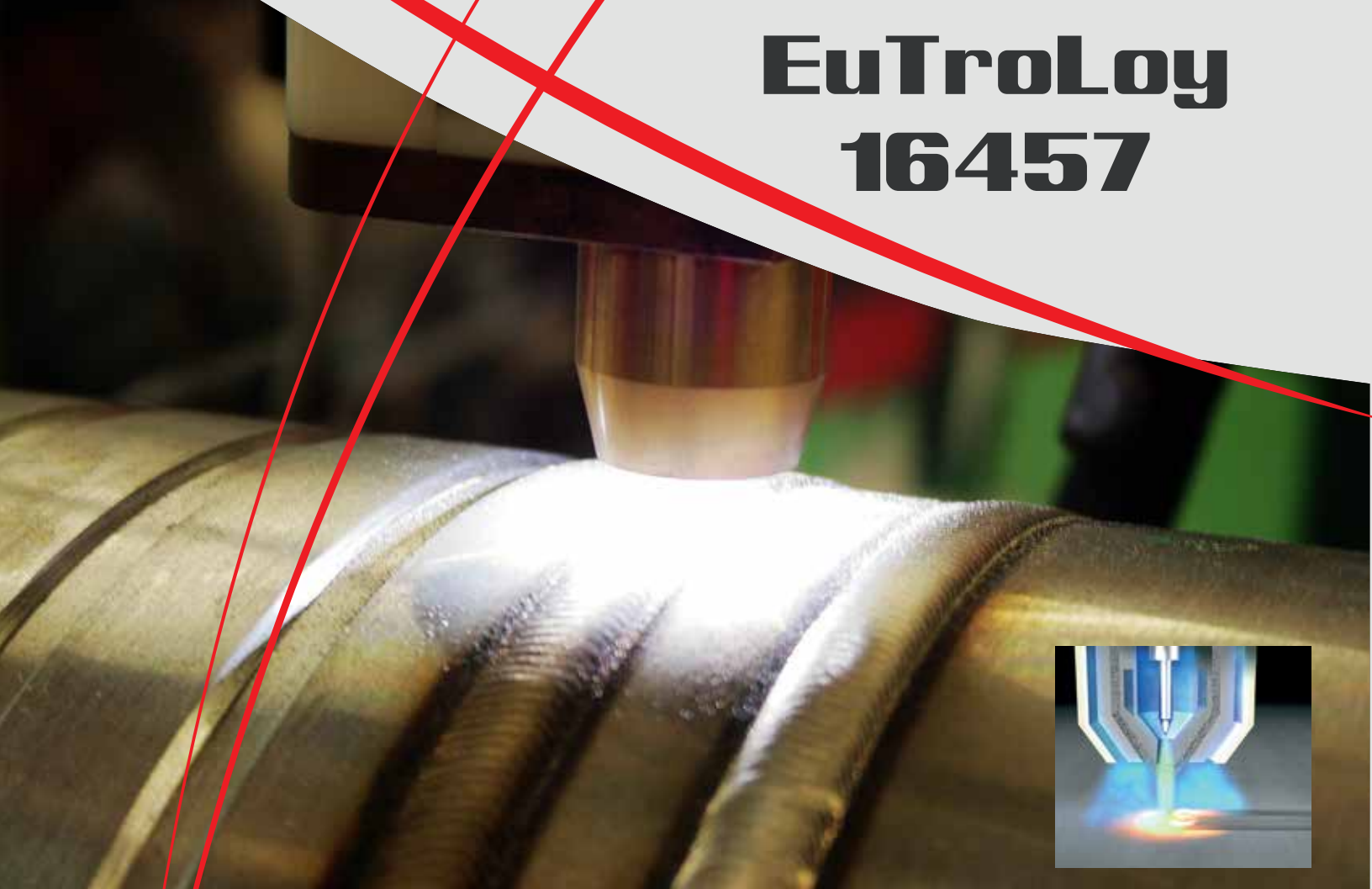




Composite Alloy Powder for the
Plasma Transferred Arc (PTA) Process

EuTroLoy

16457



- Custom metal powder for surfacing extrusion screws used in plastic and rubber processing
- Increased wear resistance due to addition of tungsten carbide
- Excellent resistance to erosion, abrasion and corrosion
- Suited for wear applications where a higher service life is required
- Grinds to a high surface finish

EuTroLoy 16457

EuTroLoy 16457 is part of a complete range of alloys specifically developed for coating extrusion screws via Plasma Transferred Arc (PTA) process.

The chemistry and particle size of this powder is carefully controlled to ensure consistent high quality coating properties.

EuTroLoy 16457 guarantees high abrasion resistance due to the addition of extremely hard tungsten-carbide particles with excellent corrosion resistance. It can improve screw life up to 2-3 times.

TECHNICAL DATA

Typical Values	
Hardness:	45 HRC
Deposit Density:	10.0 g/cc (0.36 lb/in ³)
Max. Service Temp:	650°C (1200°F)
Hall Flow Rate:	19 sec/50g
Deposition Rate:	2.27 - 9 kg/hr (5 - 20 lb/hr)

Composition:

Nickel, Chromium, Boron, Silicon, Iron, Carbon
Carbide: 15% WC-W2C (Cast Tungsten Carbide)

PROCEDURE FOR USE:

Remove damaged material. Clean areas to be welded. Match heat input during welding to component dimensions. Follow the prepared welding procedure for the specific base metal chemistry. Keep dilution with base metal low. Allow workpiece to slowly cool upon completion of welding.

It is important that amperage and voltage be kept as low as possible to maintain WC integrity, while maintaining a well bonded overlay.

Coatings of EuTroLoy 16457 can be finished by grinding.

TYPICAL APPLICATIONS

- For PTA welding of non-alloy, low-alloy and high-alloy steels and similar castings
- Decanter and transport screws and augers
- Extrusion screws used in plastic and rubber processing
- Down-hole drilling 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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