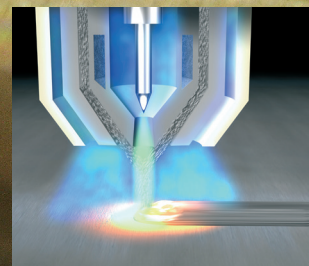




Gas-Atomized Nickel Alloy Powder for the  
Plasma Transferred Arc (PTA) Process

# **EuTroLoy** **16113**



- Specially developed for the plasma transferred arc process
- Excellent resistance to abrasion, friction and erosion
- Excellent for use on steels, stainless steels, cast irons and nickel-base alloys

# EuTroLoy 16113

EuTroloy 16113 is a high performance powder containing a blend of 60% cast and crushed tungsten carbide plus NiBSi. Coatings are resistant to abrasion and erosion and can tolerate mild levels of impact.

EuTroloy 16113 coatings can be put in service as-deposited or finished by grinding and polishing.

## TECHNICAL DATA

Typical Values	
Hardness:	54 HRC
Max. Service Temperature:	1200°F (649°C)
ASTM G-65 Test:	13 mm <sup>3</sup>

### 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:

Grinding Wheel Type:	Green Silicon Carbide (For roughing)	Aluminum Oxide (For finishing)	Diamond D151 (FEPA std)
Grit Size:	60 - 120	120 or finer concentration	75
Grade:	I - L	I - L	-----
Structure:	5 - 6 - 7	7 - 8 - 9	-----
Bond Type:	Vitrified	Vitrified	Metal
Wheel Speed:	6500 ft per minute	6500 ft per minute	18 - 22 m/min
In-Feed:	Roughing: 0.001 inches per pass Finishing: 0.0005 inches per pass or less		
Coolant:	Flood coolant with rust inhibitors in 2-5% concentration		

#### Notes:

1. Before grinding, all edges and ends of coating must be chamfer ground.
2. Frequently dress the grinding wheel face to reduce friction and heat.

## TYPICAL APPLICATIONS

- Mixer Paddles & Blades
- Auger Points
- Screw Flights
- Conveyor Chains
- Drilling Equipment
- Coal Feeder Screws
- Brick and Tile Extrusion
- Plow Discs and Harrows

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.

