

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

EutroLoy[®] 16456



COATING

- Custom powder designed for extruders used in the plastic and rubber processing industries
- Nickel-based alloy for tough wear resistant PTAW overlays
- Also used as a buildup alloy for applications where impact, fatigue and compressive forces are present
- Manufactured to a high quality standard.



DESCRIPTION:

EutroLoy 16456 is a nickel-base alloy powder developed specifically for coating extrusion screws via the Plasma Transferred Arc (PTA) process.

The chemistry and particle size of this powder is carefully controlled in our ISO certified facility to ensure consistent high quality coating properties.

EutroLoy 16456 is a hard PTAW powder and has excellent wear resistance in single and multi-pass applications.

COATING PROPERTIES:

Hardness:	55 - 56 HRC
Deposit Density:	8.9 g/cm ³ (0.3215 lb/in ³)
Particle Size:	-80 +270 mesh (-180 + 53 µm)
Max. Service Temp:	650°C (1150°F)
Hall Flow Rate:	25.5 sec/50g
Deposition Rate:	3-15 lb/hr (1.4-6.8 kg/hr)
Typical Chemistry:	
Matrix:	Nickel Chromium Silicon Boron Iron Carbon

PROCEDURE FOR USE:

Remove damaged and fatigued areas by disc grinding. Preheat according to base metal type. Set welding parameters according to base metal thickness and type. Minimum dilution is desired. Maintain preheat and interpass temperature during welding. Allow work piece to cool slowly.

FINISHING:

Coatings of EutroLoy 16456 can be finished by grinding.

TYPICAL APPLICATIONS:

- For PTAW overlays on carbon steel, low alloy heat treatable steel, stainless steel and nickel alloys
- Extrusion screws used in plastic and rubber processing
- Seal surfaces and wear rings on valves
- Pump sleeves and pump components used in the Pulp and Paper industry

HEALTH & SAFETY:

To insure 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

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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