

EUTALLOY 10112

Hot Process, Multi-Component, Nickel-Based Alloy Powder Containing Carbide Particles

DESCRIPTION

Eutalloy 10112 is a multi-component nickel-based alloy powder blend containing carbide particles. It is a hot process powder designed to be applied and fused using the Eutalloy type thermal spray process. Suitable for use on steels, stainless steels, cast irons and nickel-based alloys that are subject to severe abrasive wear. Coatings are hard and smooth as applied. They resist abrasion, friction, erosion, cavitation, and fretting. The coating will not peel or scale when exposed to elevated temperatures. The carbide particles are sized to provide optimal resistance to both fine and coarse abrasive particles. Coatings can be put in service as deposited or finished by grinding and polishing

Product Details

- Designed for the Spray and Fuse process
- Carbide particles are sized to provide resistance to fine and coarse abrasive particulate
- Excellent for use on steels, stainless steels, cast irons and nickel-based alloys
- Excellent resistance to abrasion, friction, erosion, cavitation and fretting

APPLICATIONS

Thin Overlay: Recommended (< 2mm)

- Auger Points : Coal Pulverizers
- Conveyor Chains : Sand Slinger Cups
- Coal Feed Screws : Post Hole Diggers
- Pug Mill Knives : Debarker Knives
- Mixer Blades : Wear Plates
- Fly Ash Chutes : Drill Bits
- Plow Discs and Harrows

PROCEDURE FOR USE

Preparation:

All oxides, dirt, grease, or other contaminants should be removed before application. This can be accomplished by mechanical preparation with a file, cutting tool (without lubrication), clean wire brush, grinding or grit blasting.

Coating Procedure:

Adjust the torch flame so that a neutral or slightly carburizing flame is achieved and preheat the surface to approximately 575F. After depositing a layer of powder, fuse with the torch flame until a glazed appearance is achieved.

Leave the part to cool slowly and away from air currents.

Where possible, place it in vermiculite or cover with a thermal blanket

Finishing:

Grinding Wheel Type: Aluminum Oxide Grit Size: 120 or finer 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.

TECHNICAL DATA

Typical hardness

Hardness(Matrix): 60 HRC

Hardness (Tungsten Carbide): 1900 µH

Service Temperature: 1000°F (538°C)