

EUTALLOY 10011

A Hot Process, Nickel-Based Alloy With Tungsten Carbide Particles

DESCRIPTION

Eutalloy 10011 is a powder designed for anti-wear applications, particularly for fine particle abrasion. The powder produces a coating consisting of a high volume of tungsten carbide particles (80% by weight) embedded within a hard nickel-chromium matrix. The unique characteristics of this composite coating enable it to substantially extend the service life of components, more than twice as effective as any comparable coating material.

Product Details

- Tungsten carbide particles in a hard Ni-based matrix ensures high wear resistance for extremely long service life
- Coatings combined with easy to use Eutectic equipment provides versatility in protecting equipment and parts
- Thin, strong and durable deposits lead to maintenance savings.

APPLICATION

Thin Overlay: Recommended (< 2mm)

- Mixer Blades : Cutter Wheels
- Post Hole Augers : Crawler Shoes
- Rock Bits : Muller Blades
- Choppers : Chutes
- Debarker Chains : Liners
- Plowshares : Furrowing Shovels
- Cultivator Blades : Billet Tongs
- Skid Cleats : Grapple Arms
- Catwalks, Stair Treads : Ladder Rungs
- Revolving Platforms : Conveyor Cleats
- Grippers : Guides
- Lift Devices : Feed Devices
- Clamping Devices

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:

Grind with a green or black silicon carbide wheel, 24-36 grit for rough work and 60 or finer grit for finishing.

Technical Data

Typical hardness: Hardness (Matrix): 60 HRC

Hardness (Tungsten Carbide): 1900 µHV

Service Temperature: 1200°F (649°C)