

A Hot Process, Nickel-Base Alloy with Tungsten Carbide Particles

Eutalloy® 10011



COATING

- Tungsten carbide particles in a hard Ni-base matrix ensures excellent gripping action. Surfaces are non-slip
- High wear resistance gives extremely long service life
- Coatings combined with easy to use Eutectic equipment becomes Extremely versatile in protecting equipment and parts
- Thin, strong and durable deposits lead to material savings



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.

TECHNICAL DATA:

Application Temperature: 1900°F (1040°C)

Matrix Hardness: 57-62 HRC

Tungsten Carbide: 1900 µHV

Service Conditions:

Abrasion Resistance: Excellent

Corrosion Resistance: Very Good

Heat Scaling: Very Good

Red Hardness: Very Good

Weldability: Excellent

Machinability: Non-machinable

Gripping Action: Excellent

Type of Application:

Thin overlay: Recommended

BASE METALS:

Cast irons, steels, stainless steels, and nickel alloys

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.

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

APPLICATIONS:

- 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

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