

EUTALLOY 10185

Nickel-Based Alloy Designed For The Eutalloy Process

DESCRIPTION

Eutectic 10185 is a nickel-based Eutalloy alloy designed to provide a combination of machinability and resistance to wear and corrosion. Excellent weldability and machinability permits easy contour forming on steels, stainless steel, nickel alloys and cast irons. The Eutalloy process permits precise deposition of 10185 so that thin, tough overlays can be applied and dimensional tolerances maintained.

Product Details:

- Excellent resistance to wear and corrosion
- Excellent weldability and machinability on a wide range of steels and stainless steels
- Thin, tough overlays maintain tight dimensional tolerances

APPLICATIONS

Deposit Thickness: upto 10 mm

- Bearing Surfaces: Molds
- Crankshaft Journals: Pump Parts
- Dies : Shafts
- Diesel Valves : Tile Dies
- Feed Rolls : Valve Plugs
- Material Pins : Valve Seats
- Glass Mold Plungers

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: Green Silicon Carbide Grit
Size: 75

TECHNICAL DATA:

Typical hardness: 39 HRC

Maximum Service Temperature: 1400°F (760°C)