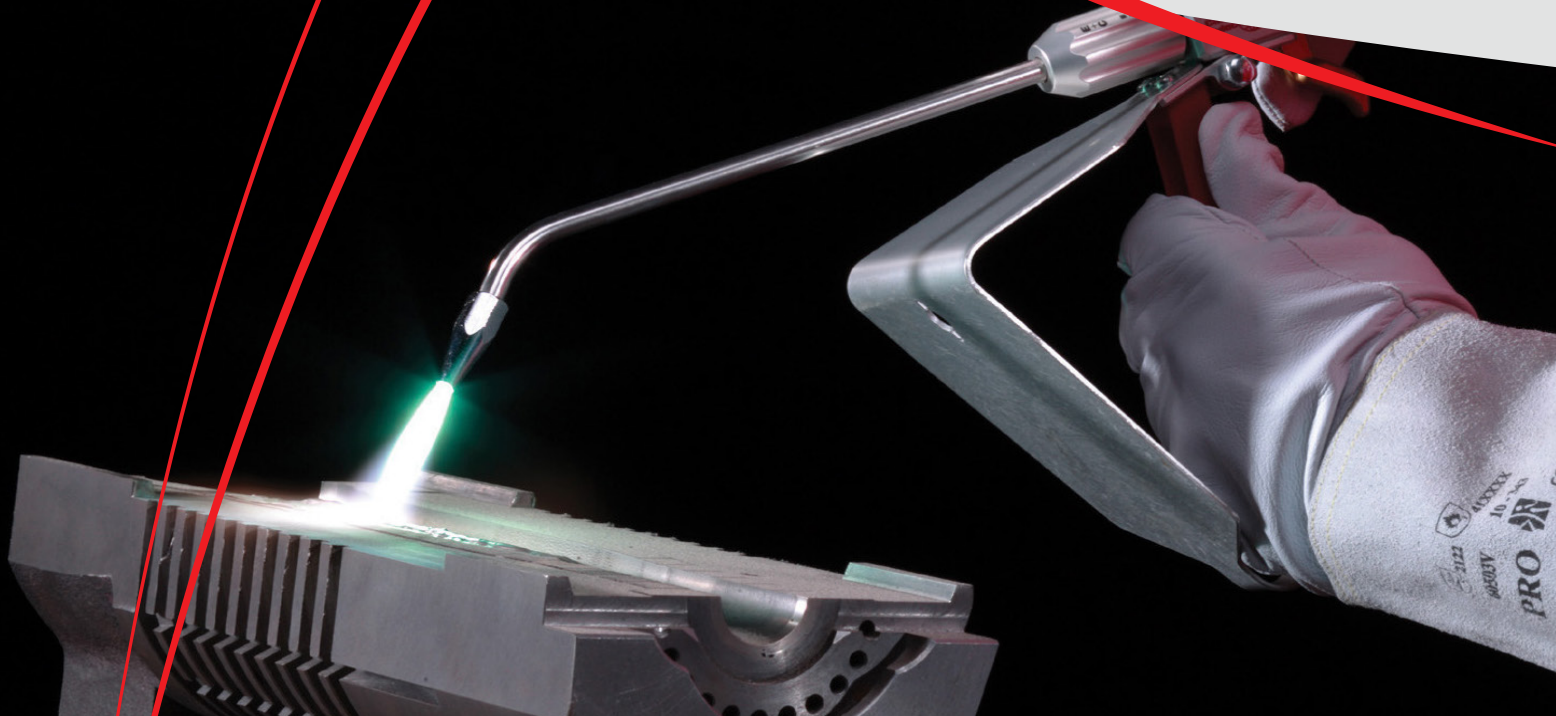




Blended Nickel Copper
Non-Magnetic Alloy Powder

Eutalloy® **10020**



- Deposits are resistant to salt corrosion and galling
- Designed for rebuilding wrought or cast Monel 316-317 stainless steels
- Excellent weldability and machinability
- Deposits non-magnetic

Eutalloy® 10020

Eutalloy 10020 is a water atomized, high performance, alloy powder optimized for use with Eutectic's Eutalloy SuperJet-S torch system. 10020 is a hot process spray and fuse powder particularly suited for use on wrought or cast Monel 316-317 stainless steels. Deposited coating is resistant to corrosion, particularly salt corrosion and galling. Deposits are non-magnetic.

Precise control of particle size and chemistry by Castolin Eutectic processes ensure consistent deposition, fusing and hardness.

TECHNICAL DATA

Typical Coating Properties	
Hardness:	38 HRC
Max. Service Temp.:	900-1400°F (482-760°C)
Typical Powder Properties	
Hall Flow Rate:	15 seconds
Bulk Density:	4.5 g/cc
Approx. Melting Range:	Solidus: 1750°F (971°C) Liquidus: 2020°F (1160°C) Furnace Fusing: 2150°F (1177°C)
Nominal Composition	
Nickel, Chromium, Silicon, Boron	

PROCEDURE FOR USE

Finishing Procedures:

Grinding Wheel Type: Green Silicon Carbide

Grit Size: 60 - 80

Grade: H (soft)

Structure: 5

Bond Type: Vitrifified

Wheel Speed: Use Manufacturer's Recommendation

Work Speed: 50 - 65 surface feet per minute

	Traverse Speed	In-Feed
Roughing	5-15 inches per minute	0.001 inches per pass
Finishing	3-8 inches per minute	0.0005 inches per pass or less

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.

TYPICAL APPLICATIONS

- Bearing Surfaces
- Crankshaft Journals
- Dies
- Diesel Valves
- Valve Seats
- Material Pins
- Molds
- Pump Parts
- Shafts
- Tile Dies
- Valve Plugs
- Feed Rolls
- Wear Rings

Observe normal spraying practices, respiratory protection and proper air flow pattern advised. For general spray practices, see AWS Publications AWS C2. 1-73, "Recommended Safe Practices for Thermal Spraying and AWS T55-85, "Thermal Spraying, Practice, Theory and Application." Thermal spraying is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before starting spray operations. DO NOT operate your spraying equipment or use the spray material supplied, before you have thoroughly read the equipment instruction manual. Refer to the Eutectic website for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



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