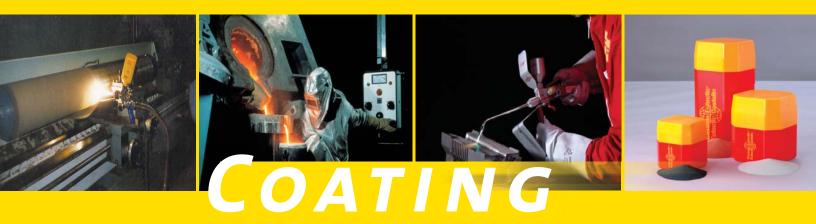
Hot Process, Multi-Component, Nickel-Base Alloy Powder Containing
Carbide Particles

Eutalloy 10112



- 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-base alloys
- Excellent resistance to abrasion, friction, erosion, cavitation and fretting



DESCRIPTION:

Eutalloy 10112 is a multi-component nickel-base 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-base alloys that are subject to severe abrasive wear. Coatings are hard and smooth as applied. They resist abrasion, friction, erosion, cavitation, and fretting. It 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.

APPLICATIONS:

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

TECHNICAL DATA:

Powder Properties

Nominal Composition: Tungsten + Nickel + Chromium +

Boron + Silicon + Iron + Carbon Hall Flow Rate: 12 seconds Bulk Density: 5.5 q/cc

Powder Coverage: 1 lb per 50 in² @ 1/16"

Coating Properties

Hardness: Rockwell C scale: 60 Typical Hot Hardness: Up to 1000°F

Typical Micro Hardness: Knoop of Tugnsten Carbide, +1900

Density: 10.0 q/cc

Wear Resistance (ASTM G-65 Schedule A volume loss) 10-15 mm³

FINISHING PROCEDURE:

Grinding Wheel Type:	Green Silicon Carbide	Aluminum Oxide	Diamond
	(For roughing)	(For finishing)	D151 (FEPA std)
Grit Size:	60 - 120	120 or finer Concentration	75
Grade:	I-L	I-L	
Structure:	5 - 6 - 7	7 - 8 - 9	
Bond Type:	Vitrified	Vitrified	Metal
Wheel Speed:	6500 ft per minute	6500 ft per minute	18 - 22 meter/min
In-Feed:	Roughing:0.001 inches per pass		
	Finishing: 0.0005 inches per pass or less		
Coolant:	Flood coolant with rust inhibitors in 2-5% concentration		

Notes: 1. Before grinding, all edges and ends of coating must be chamfer ground.

HEALTH & SAFETY:

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 TSS-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 web site for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



Eutectic Corporation

N94 W14355 Garwin Mace Drive Menomonee Falls, WI 53051 USA P 800-558-8524 • F 262-255-5542 www.eutectic.com

Eutectic Canada

428. rue Aime Vincent Vaudreuil-Dorion, Quebec J7V 5V5 Phone: (800) 361-9439 Fax: (514) 695-8793

www.eutectic-na.com

Eutectic Mexico KM 36.5 Autopista Mexico-Quertaro 54730 Cautitlan-Izcalli Estado de Mexico, Mexico

Phone: 011 (52) 55-5872-1111 e-mail: eutectic@eutectic.com.mx

^{2.} Frequently dress the grinding wheel face to reduce friction and heat.