

Non-Magnetic Tungsten Carbide Overlay Alloy

EuTroLoy® 5224



COATING

- Non-Magnetic Nickel based matrix with Tungsten Carbide
- Excellent carbide distribution throughout the overlay
- Low dilution means full coating properties for extended wear resistance



DESCRIPTION:

A proprietary non-magnetic composite nickel-base alloy containing a discrete fraction of tungsten carbides. EuroLoY 5224 is excellent for use as a wear resistant overlay on steels, stainless steels, cast irons and nickel based alloys.

APPLICATIONS:

- Oil and Gas: Stabilizer and hardbanding applications directional drilling tools
- Agricultural: Hard facing of cutter bars in applications using magnetic sensors
- Pulp and Paper: Hard facing of chippers and shredders in systems using magnetic sensors
- Recyclers: Shredders in systems using magnetic sensors

TECHNICAL DATA:

Typical Coating Properties

Matrix hardness: 32 HRC
Microhard. of WC: 2600 (50-100g load kg/mm²)
Volume of WC: ~ 25%
Typical matrix chemistry: Proprietary Non-Magnetic alloy

Typical Powder Properties

Matrix: Proprietary Eutectic Alloy
Carbide: WC
Carbide to matrix ratio: 25/75
Melting temperature: approx. 2500°F (1370°C)
Max. operating temp.: approx. 1200°F (650°C)
Typical Hardness: matrix 32 HRC, carbide 2600HV
Thickness limit: up to 3mm per pass
Deposition rate: 5-20 lbs/hr (2.2-9kgs/hr)

Finishing: 5224 is not normally finished, but if required can be finished by grinding.

EQUIPMENT:

EuTroLoY 5224 powder is made for use in Eutectic's GAP PTA equipment. It is also capable of being used with some manual torch applications.

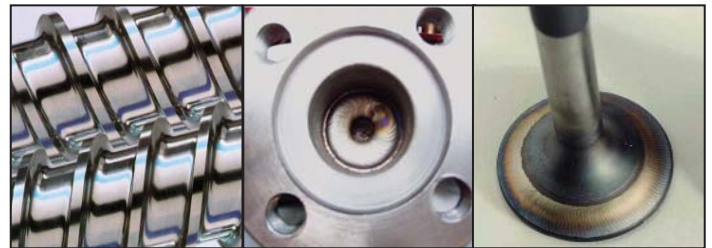
Please contact Eutectic to determine which GAP and/or torch equipment is right for your coating needs.

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 Safety Data Sheet (SDS) information.

DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH



Eutectic Castolin develops and manufactures PTA welding units and accessories in various models and sizes either as standard units or as special developments. Our team of technicians will be able to design with you the cost effective and tailor made solution that fits your specific application. From power source to feed unit, welding torch, even handling devices or robots when required, we take care of all the details.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



EUTECTIC CORPORATION
N94 W14355 Garwin Mace Drive
Menomonee Falls, WI 53051 USA
Tel.: +1 (800) 558-8524
eutectic.com

EUTECTIC CANADA
428, rue Aimé-Vincent
Vaudreuil-Dorion, Québec
J7V 5V5 Canada
Tel.: +1 (800) 361-9439
eutectic.ca

