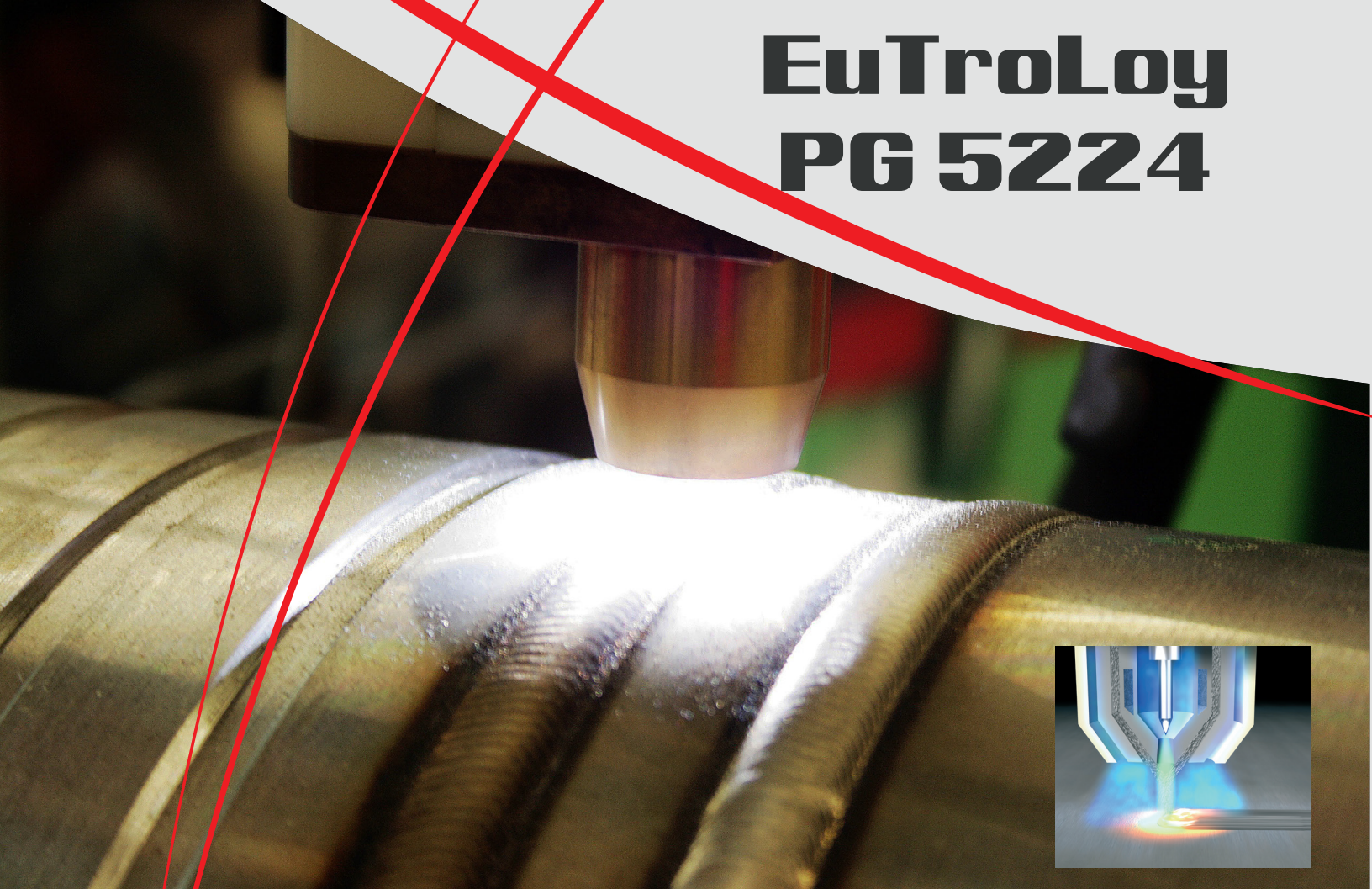




Non-Magnetic Tungsten Carbide Powder  
for the Plasma Transferred Arc Process

# **EuTroLoy**

## **PG 5224**



- Non-Mag Nickel based matrix with macrocrystalline Tungsten Carbide
- Wear resistant overlay for steels, stainless steels, cast irons and nickel based alloys
- Excellent carbide distribution throughout the deposit
- Low dilution means full wear resistant properties!

# EuTroLoy PG 5224

EuTroLoy PG 5224 is a high performance atomized nickel alloy powder optimized to produce hard, dense, durable, abrasion, corrosion, and friction resistant coatings. Powder is applied using the Eutronic® GAP Plasma Transferred Arc (PTA) Welding Process. The PTA process ensures low dilution for best-in-class wear resistant properties. Precise particle sizing during powder atomization means consistent, porosity-free weld deposits. For surfacing of steels, stainless steels, cast iron and nickel alloys.

EuTroloy PG 5224 powder has a unique particle shape which reduces the tendency for nozzle/shield cup loading.

## TECHNICAL DATA

Typical Values	
Macro Hardness:	32 HRC
Micro Hardness:	2600HV (50-100g load kg/mm <sup>2</sup> )
Max. Service Temperature:	1200°F (650°C)
Volume of WC:	~ 25%
Thickness Limit:	Up to 3mm per pass
Deposition Rate:	5-20 lbs./hr. (2.2-9 kgs./hr.)

### Equipment

Made for use with Castolin Eutectic's Eutronic® GAP Plasma Transferred Arc equipment. Please contact Eutectic to determine which GAP equipment is right for your coating needs.

## PROCEDURE FOR USE:

For some applications a modest pre-heat may be required. The degree is dependent on the shape and dimensions of the part and the thickness of the deposit. Please contact Eutectic Technical Services for more information.

### Finishing:

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

## TYPICAL APPLICATIONS

**Oil and Gas:** Stabilizer and hardbanding applications directional drilling tools

**Agriculture:** 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

To ensure a safe work environment observe normal welding practices, provide appropriate eye, hearing, skin and respiratory protection and pay attention to air flow patterns. For general weld practices, refer to ANSI Z49.1:2012 - "Safety in Welding, Cutting, and Allied Processes". Welding is a completely safe process when performed in accordance with proper safety measures. Become familiar with local safety regulations before starting operations. DO NOT operate your equipment or use the material supplied, before you have thoroughly read the equipment instruction manual. Contact Eutectic for Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



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