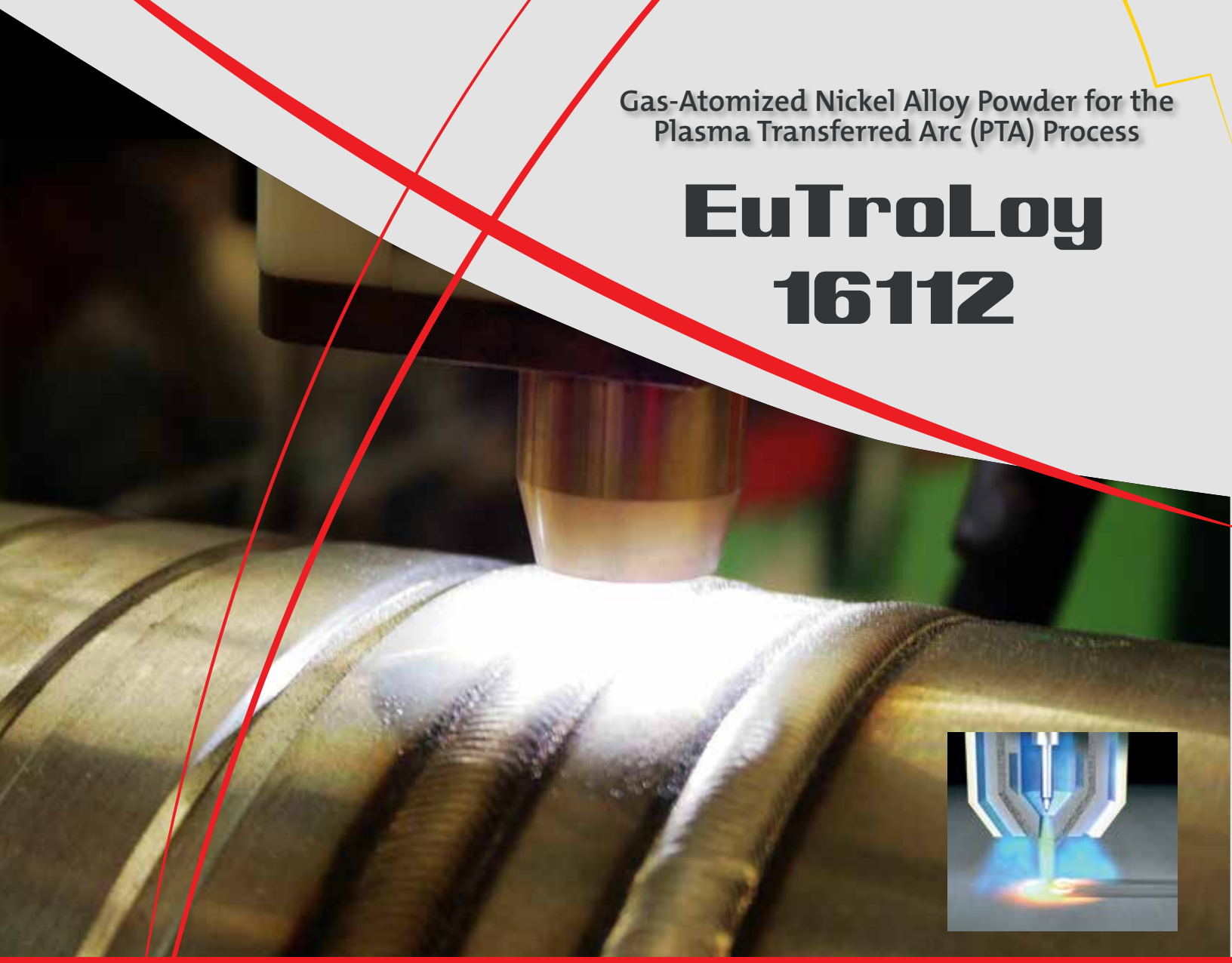
Castolin Eutectic®
Eutectic Castolin

Gas-Atomized Nickel Alloy Powder for the Plasma Transferred Arc (PTA) Process

EuTroLoy 16112



- Specially developed for the plasma transferred arc process
- Excellent resistance to abrasion, friction and erosion
- Excellent for use on steels, stainless steels, cast irons and nickel-base alloys

EuTroLoy 16112

EuTroLoy 16112 is a high performance NiCrBSi powder containing tungsten carbide particles. This alloy provides a coating with outstanding resistance to abrasion and erosion.

This coating is suitable for use on steels, stainless steels, cast irons, and nickel-base alloys.

Coatings are hard and smooth as applied. The coatings can be put in service as-deposited or finished by grinding and polishing.

TECHNICAL DATA

Typical Values	
Hardness:	60 HRC
Max. Service Temperature:	1200°F (649°C)
Density:	8.33 g/cc
ASTM G-65 Test:	10mm^3
Hall Flow Rate:	12 seconds
Bulk Density:	5.5 g/cc

Equipment

Made for use in Eutectic's GAP plasma transferred arc equipment. Please contact Eutectic to determine which GAP equipment is right for your coating needs.

PROCEDURE FOR USE:

Grinding Wheel Type:	Green Silicon Carbide (For roughing)	Aluminum Oxide (For finishing)	Diamond 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 m/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.
2. Frequently dress the grinding wheel face to reduce friction and heat.

TYPICAL APPLICATIONS

- Mixer Paddles & Blades
- Screw Flights
- Drilling Equipment
- Brick and Tile Extrusion
- Auger Points
- Conveyor Chains
- Coal Feeder Screws
- Plow Discs and Harrows

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Eutectic Corporation:
N94 W14355 Garwin Mace Dr.
Menomonee Falls WI, 53051 USA
+1 800. 558. 8524 • eutectic.com

Eutectic Canada:
428, rue Aimé-Vincent Vaudreuil-Dorion,
Québec J7V 5V5 Canada
+1 800. 361. 9439 • eutectic.ca

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