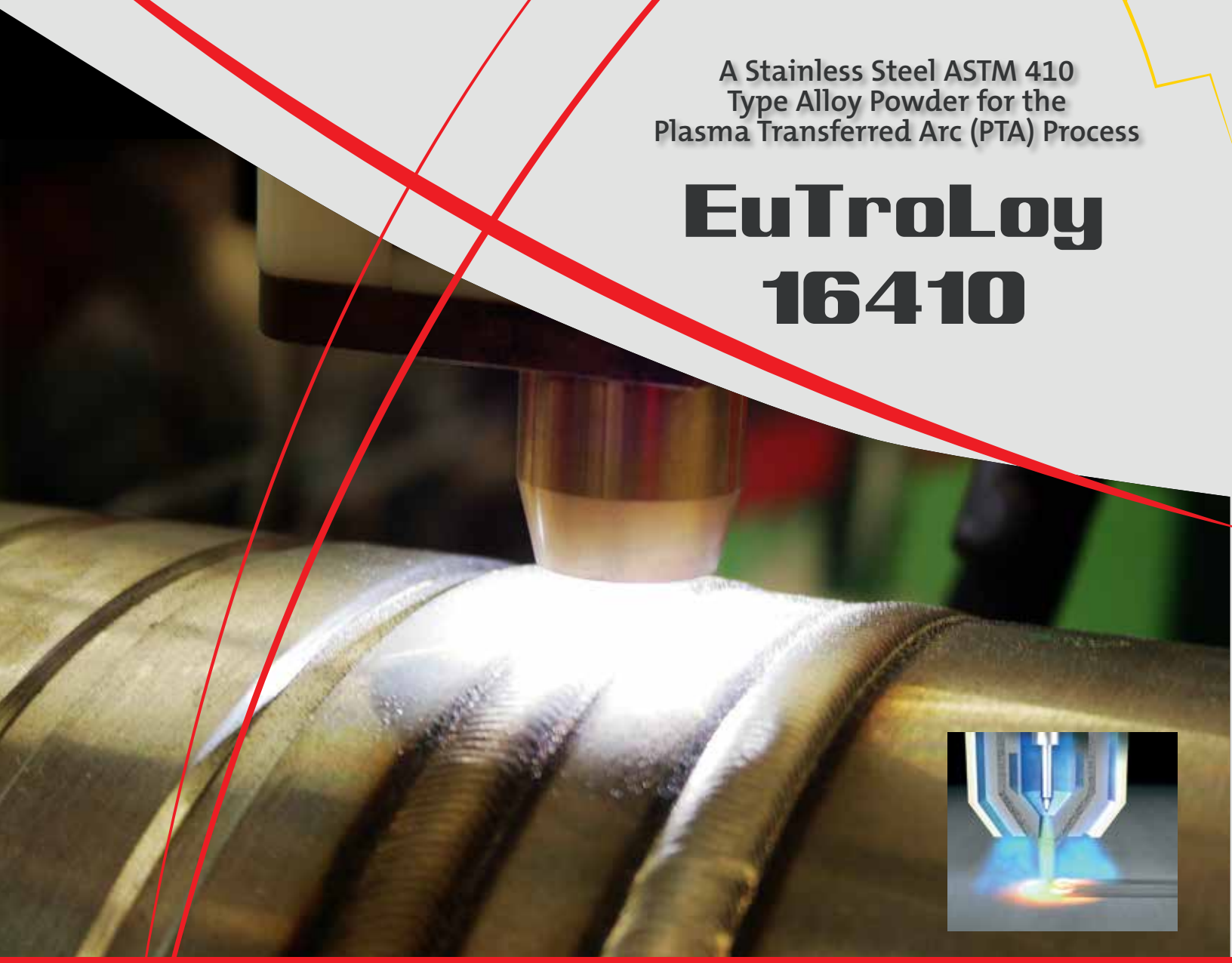
Castolin Eutectic®
Eutectic Castolin

A Stainless Steel ASTM 410
Type Alloy Powder for the
Plasma Transferred Arc (PTA) Process

EuTroLoy 16410



- Dense stainless steel deposits for dimensional buildup of parts
- Best corrosion and wear resistance of the stainless steel group
- Hardenable by heat treatment
- Good resistance to scaling to 650°C
- Excellent finish by grinding

EuTroLoy 16410

EuTroLoy 16410 is a gas atomised powder of ASTM Type 410 alloy composition. This powder is a hardenable stainless steel alloy designed for the plasma transferred arc welding (PTAW) process and provides hard, dense coatings. Deposits exhibit a tempered martensitic structure with excellent resistance to metal-to-metal wear.

EuTroLoy 16410 provides resistance to general corrosion, pitting, crevice corrosion, intergranular attack and stress corrosion cracking.

The chemistry and particle size of EuTroLoy 16410 is carefully controlled to ensure consistent high quality coating properties.

TECHNICAL DATA

Typical Values	
Typical Matrix Hardness:	35 HRC
Max. Service Temperature:	650°C (1200°F)
Deposit Density:	7.74 g/cc (0.28 lb/in^3)
Apparent Density:	4.2 g/cc (0.151 lb/in^3)
Hall Flow Rate:	15.8 sec/50g

Composition:

Carbon, Chromium, Nickel, Silicon, Sulfur, Iron

PROCEDURE FOR USE:

Remove damaged material. Clean areas to be welded. Match heat input during welding to component dimensions. Follow the prepared welding procedure for the specific base metal chemistry. Keep dilution with base metal low. Allow workpiece to slowly cool upon completion of welding.

Coatings of EuTroLoy 16410 can be finished by machining or grinding.

TYPICAL APPLICATIONS

Dimesional buildup of various parts, including:

- Bolts
- Nuts
- Screws
- Bushings
- Pump and valve parts
- Shafts steam and gas turbine parts
- Petroleum fractionating towers
- Mine ladder rungs

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.

Castolin Eutectic® Eutectic Castolin

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

Follow Us On...

04-2021