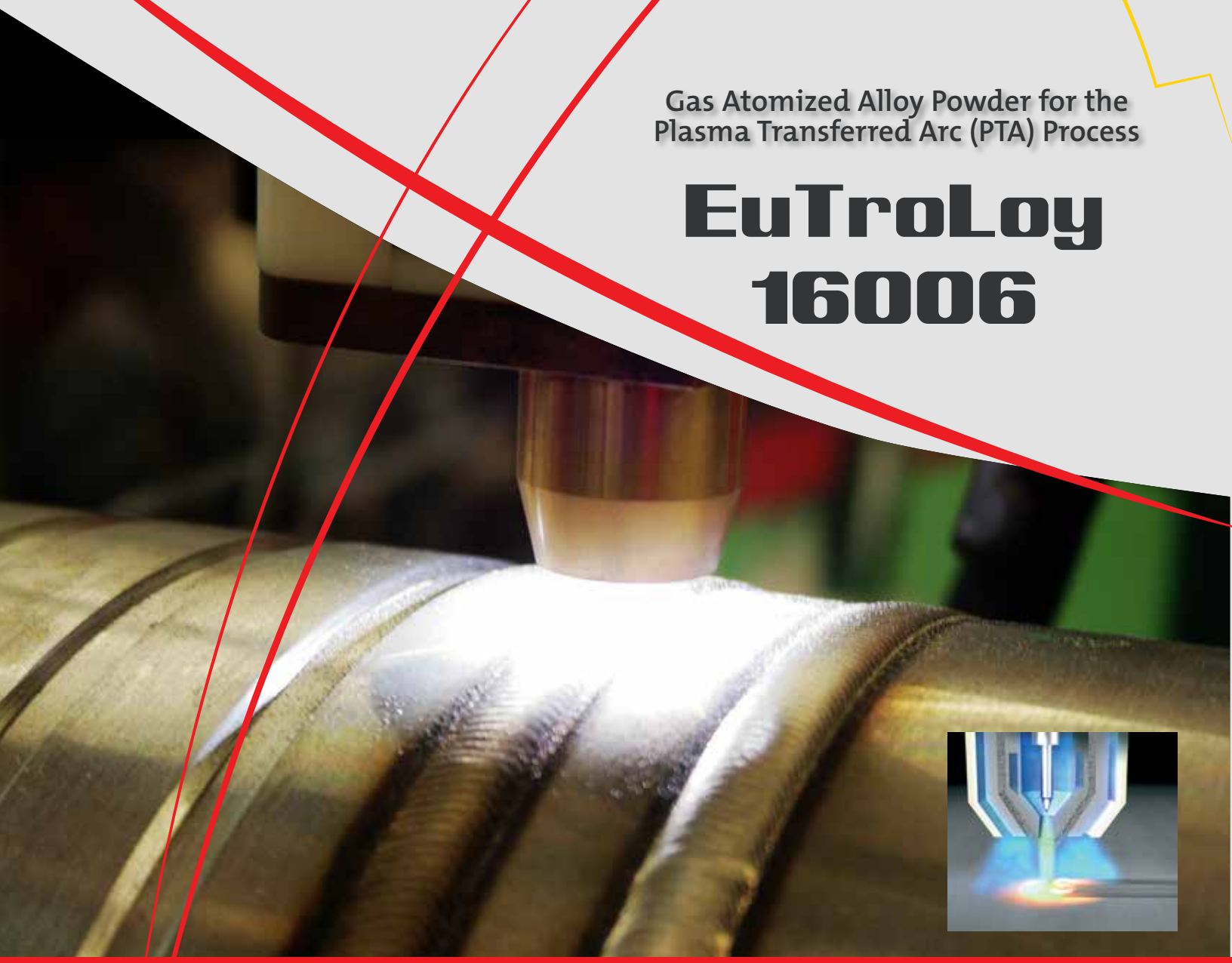
Castolin Eutectic®
Eutectic Castolin

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

EuTroLoy 16006



- Spherically shaped to ensure highest purity
- Excellent resistance to liquid erosion
- High resistance to cavition
- Good resistance to impact

EuTroLoy 16006

EuTroLoy 16006 has been specially developed to meet the metallurgical and physical standards of the Plasma transferred arc (PTA). The alloy characteristics, combined with the regularity and efficiency of the process, give constant high quality deposits, very low dilution of the base metal and high deposition speed. High resistance to erosion in liquid media. High resistance to cavitation. Good resistance to impact.

EuTroLoy 16006 is a pre-alloyed powder. It is manufactured by gas atomisation to have a spherical shape and to ensure the highest purity, in particular to keep a low oxygen content.

The spherical shape and the grain-size distribution of the particles ensures a regular flow of powder through the equipment.

TECHNICAL DATA

Typical Values	Minimum	Nomimal
Hardness Undiluted:	37 HRC	40 HRC
Max. Service Temperature:	-	1382°F (750°C)
Typical Density:	8.44 g/cc (0.305 lb/in^3)	
G65 Wear Test Results:	30 mm^3	

Nominal Composition: C, Cr, W, Co

Powder Morphology: Pre-alloyed, homogeneous, spherical particles of uniform composition

Other size ranges can be supplied on request.

Equipment

Made for use in Eutectic's GAP plasma transferred arc 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.

PROCEDURE FOR USE:

Preheat followed by slow cooling is necessary for a crack-free deposit. The preheat temperature depends on the dimensions and shape of the part and the deposit.

TYPICAL APPLICATIONS

Valve fittings (seats, shutters and cones) for use with steam, oil, chemical products and sea water. Diesel engine valves. Processing machinery for organic waste. Extruder screws. Bond coat for EuTroLoy 16012 and 16001.

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...

09-2021