



Self Bonding, Highly Erosion Resistant Wire  
Made Exclusively for the  
Twin Wire Arc Spray Process

# **EuTronic® Arc 502 Wire**

- Superior coating quality and integrity
- Minimum residual stresses in coating
- Fast deposition rates reduce labor costs
- Controlled density and oxide dispersion

# EuTronic® Arc 502AS

EuTronic Arc 502 is a self bonding alloy with enhanced surface wear resistance properties to combat erosion, thermal shock up to 1200°F (650°C), moderate corrosion and oxidization. 502 is normally used without machining in the as sprayed condition.

## BENEFITS:

- Superior coating quality and integrity
- Improved adhesion bonding to substrate
- Minimum residual stresses in coating
- Controlled density and oxide dispersion
- Longer service life of coated components
- Faster deposit spray rates reduce labor costs
- Cost effective solution for increasing productivity

## PROCEDURE FOR USE:

The substrate surface must be perfectly clean and free from all traces of residues, oxides or other contaminants before freshly roughening by appropriate blasting.

As spray parameters must be adopted according to the thermal spray system used, contact a Eutectic specialist for further details.

The sprayed coating may be machined by grinding according to required surface finish specifications.

Please contact your Eutectic Surface Coatings Specialist for more information.

## TECHNICAL DATA

Typical Values	
Hardness:	63 HRC
Bond Strength:	5500 psi

*NOTE: The above values are dependent on the spraying system and parameters used.*

## TYPICAL APPLICATIONS

- Cement cooler plates
- Fume extractors
- Steam turbine casings
- Boiler water wall protection
- High temp. cyclones
- Pulp production digesters
- Cracking installations

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 spray practices, see AWS Publications AWS C2. 1-73, "Recommended Safe Practices for Thermal Spraying" and AWS T55-85, "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 Material Safety Data Sheet (MSDS) information. DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH.



**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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