



Wear and Corrosion Resistant Stainless Steel
Wire Made Exclusively for the
Twin Wire Arc Spray Process

EuTronic[®] Arc 532 Wire



- Self bonding
- Excellent resistance to metal-to-metal friction, corrosion and oxidation
- Alternative to 13% stainless steel wire
- Excellent for projects requiring thick coating build-up

EuTronic® Arc 532AS

EuTronic Arc 532AS is a Self-bonding alloy with enhanced surface wear resistance properties to combat metal-to-metal friction, corrosion and oxidation.

KEY FEATURES

- No distortion of the workpiece or alteration to its dimensions and structure
- Compact, lamellar structure with strong interparticle bonding
- Excellent abrasion resistance combined with outstanding bonding to substrates
- Low coefficient of friction
- Non-magnetic, oxidation-resistant protective coating
- Applied by EuTronic Arc Spray 4 HF system.

TECHNICAL DATA

Typical Values	
Hardness:	56 HRC
Deposit Efficiency:	70 - 80% (parameter dependent)
Bond Strength:	5,100 psi
Spray Rate:	10 lb/hr/100 amps
Melting Temperature:	2600°F (1427°C approx.)
Density:	6.74 gm/cc
Shrinkage:	0.0018 in/in
Wire Weight:	96 feet/lb @ 1/16 inch diam.
Wire Coverage:	0.8 oz/ft ² /0.001" (wire consumption)
Surface Texture:	Variable (dependent on spray param.)
Coefficient of Thermal Expansion:	6.6 x 10 ⁻⁶ in/in °F (up to 1000°F)

PROCEDURE FOR USE:

Surface should be clean, white metal, with no oxides (rust), dirt, grease, or oil on the surface to be coated.

Note: It is best not to handle surfaces after cleaning.

Recommended method of preparation is to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe. Adequate air ventilation is recommended.

EuTronic Arc 532AS coatings can be machined or ground to an excellent finish.

Please contact your Eutectic Surface Coatings Specialist for more information.

Spray Parameters:

Air Pressure: *50 – 60 psi
Voltage: *28-30
Amperage: *100-200
Standoff: *4-6 in. (10-15 cm)

**Parameters are typical and may vary depending on the equipment used. Contact your equipment manufacturer for optimum spray parameters.*

Availability:

15 kg per spool @ 1/16" diameter
Part Number: 532AS-16-15K

TYPICAL APPLICATIONS

- Cylinder Liners
- Journals
- Crankshaft Bearings
- Pistons
- Hydraulic Rams
- Machine Elements

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.



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