



A 1350 Grade Aluminium Wire
Made Exclusively for the
Twin Wire Arc Spray Process

EuTronic® Arc

525 Wire



- Well bonded coatings with resistance to atmospheric and chemical corrosion
- Provides corrosion protection in salt water and fresh water
- Can be used for protecting steel from high temperature corrosion

EuTronic® Arc 525AS

EuTronic Arc 525AS aluminum wire meets the standard specification AA 1350 (min. 99.5% Al) and is made exclusively for arc spraying.

The as-sprayed coating provides resistance to atmospheric, chemical and high temperature corrosion as well as excellent electrical and heat conductivity.

Note: Electric wire arc sprayed aluminum coatings have greater bond strength than flame sprayed coatings.

TECHNICAL DATA

Typical Values	
Hardness:	90 HRH
Deposit Efficiency:	70%
Bond Strength:	4375 psi (30.2 MPa)
Melting Temperature:	1215°F (657°C)
Density:	2.51 gm/cc
Spray Rate:	6 lb/hr/100 amps
Wire Coverage:	0.3 oz / ft ² /0.001"

Typical Composition:

Aluminum: 99.5%

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.

EuTronic Arc 525AS coatings can be machined.

Please contact your Eutectic Surface Coatings Specialist for more information.

Spray Parameters:

Air Pressure: *50 – 60 psi
Voltage: *28-30
Amperage: *100-200
Standoff: *3-8 in.

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

Availability:

2.0mm (5/64"); 3.2mm (1/8"); 4.8mm (3/16")
Other wire diameters available on request.

TYPICAL APPLICATIONS

- Corrosion protection in atmospheric and submerged water applications
- Chemical processing industry
- Electronics industry
- Heat conductivity
- Repair of aluminum castings
- Oil refining equipment
- Boat bottom interiors
- Applications where relatively thick coatings are required

Note: For submerged conditions, use of an appropriate sealer is recommended for longer life.

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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