

A 1350 Grade Aluminium Wire made for the Electric Arc Spray Process

# EuTronic Arc<sup>®</sup> 525 Wire



## COATING

- 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



## DESCRIPTION:

This 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.*

## 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.*

## TYPICAL WIRE CHARACTERISTICS:

Melting Point: 1215°F (657°C)

Aluminum: 99.5%

## TYPICAL COATING CHARACTERISTICS:

Bond Strength:	4375 psi (30.2 MP)
Deposit Efficiency:	70%
Hardness:	30 - 75 HRB
Coating Density:	2.51 g/cm <sup>3</sup>
Spray Rate:	6 lb/hr/100 amps
Wire Coverage:	0.3 oz/ft <sup>2</sup> /0.001"

## FINISHING:

EuTronic Arc 525AS coatings can be machined.

## 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.

## ARC 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.

## AVAILABILITY:

2.0mm; 3.2mm (1/8"); 4.8mm (3/16")

Other wire diameters available on request.

## HEALTH & SAFETY:

To insure a safe work environment observe normal spraying practices, provide appropriate respiratory protection and pay attention to air flow patterns. For general spray practices, see AWS "Safety and Health Fact Sheet No.20 - Thermal Spray Safety". 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.

Contact Eutectic for Material Safety Data Sheet (MSDS) information.

DISREGARDING THESE INSTRUCTIONS MAY BE HAZARDOUS TO YOUR HEALTH

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