

## TH601 Aluminum

**DESCRIPTION**

TH601 is a pure aluminum alloy with 1% of residual elements. When arc sprayed- aluminum offers superior corrosion protection to more noble metals through the sacrificial anode principle. TH601 is primarily used in shoreline and saltwater areas, both splash zone and subsea areas, where PH values range from 8-12. In addition to its superior corrosion protection aluminum coatings can be used in service with continuous operating temps of 1,000F. TH601 uses vary from electrical to corrosion protection and can be found in industries such as, oil & gas, maritime, automotive, manufacturing and commercial to name a few.

**TYPICAL DEPOSIT CHARACTERISTICS:**

- Bond Strength                      2,000 + with 1000 psi being typical
- Typical Hardness                 NA
- Deposit Rate                        18-65 lbs. per hr.
- Deposit Efficiency                60-70%
- Wire Coverage                    4 sq. ft. per lbs. at 8-10 mils thick
- Surface Finish                    Textured

**SURFACE PREPARATION:**

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. \*Thermion recommends a 3.5 mil minimum anchor tooth profile.

**Applications:**

- Oil and Gas Pipelines
  - Transmission Towers
  - C.U.I (corrosion under insulation)
  - Breakwater Piles
  - Holding Tanks
  - Flare Booms
- Offshore Oil Platforms
  - Automotive Headers
  - Saltwater Piles
  - Boats
  - Boat Winches
  - Exhaust Stacks

**NOMINAL CHEMICAL COMPOSITION (wt. %):**

Si	Cu	Mg	Zn	Al	Other
.95	.05-0.20	.05	.10	99	.05-0.15

**RECOMMENDED SPRAY PARAMETERS:**

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16", 3/32", 1/8", 3/16"	80-100 psi	32-34 volts	150-650 amps	6-8"

Parameters are typical and may vary depending on equipment used.

**STANDARD SIZES & PACKAGING:**

Diameter	Packaging	Drums	Reels
1/16" (1.6mm)	30#	250# Drums	
3/32" (2.3mm)	30#	250# Drums	
1/8" (3.175mm)	30#		160# Reels
3/16" (4.76mm)	30#		160# Reels