



TH700 Zinc

DESCRIPTION

TH700 is a pure zinc alloy drawn down to specific sizes within tightly maintained tolerances that can be heat treated to match clients request. Thermal spray is well known for its superior corrosion protection and can be found used in a number of industries such as Infrastructure, DOT, Maintenance, Bridge Fabrication Oil & Gas, Power Gen, Marine and Electrical to name a few.

TYPICAL DEPOSIT CHARACTERISTICS:

- Bond Strength 500 psi +
- Typical Hardness 80-85
- Deposit Rate 18-189 lbs. per hr.
- Deposit Efficiency 60-73%
- Wire Coverage 2 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:

- I-Beams
- Dam Gates
- Piles
- Transmission Towers
- Frames
- Cabinets
- Bridges
- Wind Towers
- Pipe Condensers
- Any metal that is going to see a corrosive environment

NOMINAL CHEMICAL COMPOSITION (wt. %):

Sn	Cu	Pb	Cd	Fe	Zn
.0001	.0002	.0018	.0002	.0006	Remainder

RECOMMENDED SPRAY PARAMETERS:

Diameter	Air Pressure	Voltage	Amperage	Standoff
1/16", 3/32", 1/8", 3/16"	80-100 psi	30-33 volts	150-650 amps	6-8"

Parameters are typical and may vary depending on equipment used.

STANDARD SIZES & PACKAGING:

Diameter	Packaging	Drums
1/16" (1.6mm)	55#	550#
2mm	55#	550#
3/32" (2.3mm)	55#	550#
1/8" (3.175mm)	55#	550#
3/16" (4.76mm)	55#	550#



Data Sheet