

WISDOM Thermal Spray Consumables

Aluminum & Zinc base alloy



Pure Zn

DATA SHEET

November 2015

Introduction

Pure Zn is 99.99% pure, and is not contaminated in the arc spray process. Zinc alloy wire sprayed coatings are integral steps in the manufacture of various electronic, capacitor, automotive, heat exchange and tube & pipe products. Thermal spray Zinc based alloy wire coatings are also used in the Corrosion protection of bridges, locks & dams, above ground storage tanks, light poles, and other critical infrastructure.

Equivalent to: TAFA02Z, Sulzer Metco Zinc.

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.

Application

- Atmospheric corrosion protection
- Electrical conductance on components
- Atmospheric and immersion corrosion protection
- Barriers, posts and poles, offshore structures and marine structures
- EMI and RF shielding on plastic components (electric arc spray only)

Chemical composition

Type	Zn	Others
Zn 99.9+	Balance	0.1

Specifications

Grade	AWS
Zn	C2.25/C2.25M W-Zn-1

Physical Properties

Grade	Density	Rockwell Hardness
Zn	7.14 g/cm ³	

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Typical Deposit Characteristics

Grade	Typical Hardness	Bond Strength	Deposit Rate	Deposit Efficiency	Machine Ability
Zn	HRB 20 – 30	6.9 – 15.0 Mpa	24 lbs /hr/ 100A	0.7	Good

Standard Sizes & Packing

Diameter	Dimension Tolerance	Packing	Wire Weight
1/16"(1.6mm)	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
2.0mm	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
1/8"(3.17mm)	+0/-0.05	Coil Form	20-400kgs/coil

Other sizes can be produced by customers' requirement.