

WISDOM Thermal Spray Consumables

Aluminum & Zinc base alloy



ZnAl85/15

DATA SHEET

November 2015

Introduction

ZnAl85/15 has good corrosion resistance than either pure Zinc or Aluminum, by combining the advantages of both materials. It is used for corrosion protection in both atmospheric and marine environments.

Equivalent to: TAFA 02A, Metco Zn/Al.

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	Al	Others
Zn 15Al	Balance	15	

Specifications

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

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Physical Properties

Grade	Density	Rockwell Hardness
ZnAl	7.18 g/cm ³	

Typical Deposit Characteristics

Grade	Typical Hardness	Bond Strength	Deposit Rate	Deposit Efficiency	Machine Ability
Zn 5Al	HRB 40 –45	20.7 – 24.1 Mpa	/	/	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.