



# **TIODIZE®**

## **TECHNICAL DATA**

ALUMAZITE

ZY-138

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### **ALUMAZITE ZY-138**

An aluminum filled corrosion inhibitive coating  
designed to prevent galvanic corrosion

#### **IT DOES NOT CONTAIN ANY CHROME PIGMENTS**

**ALUMAZITE ZY-138** has excellent adhesion to all metals and eliminates the commonly acknowledged dangers of hydrogen embrittlement, or diffusion stress cracking, as related to cadmium plating processes.

**ALUMAZITE ZY-138** meets the requirements of NAS 4006, MIL-C-85614 and BMS 10-85

#### **SOME RECOMMENDED USES**

**ALUMAZITE ZY-138** has been proven and tested in such areas as automotive, marine, aircraft, missiles, farm equipment, fasteners, etc.

**ALUMAZITE ZY-138** can be applied to materials such as:

Titanium	Steel	Copper
Aluminum	Chrome	Brass
Magnesium	Nickel	Stainless

**And many other materials as well.**

**ALUMAZITE ZY-138** is abrasion and heat resistant and can be used as a base for paint and other coatings.

#### **PHYSICAL PROPERTIES**

Recommended Thickness ..... 0.0003" to 0.0005"

Recommended Cure ..... 400°F (Part Temperature) for one hour

Temperature Range ..... -65°F to +600°F

Color ..... Gold

Shelf Life ..... 12 months

## FLUID RESISTANCE of ALUMAZITE ZY-138

Skydrol

Gas Turbine Oil, MIL-L-7808

Hydraulic fluid, MIL-H-5606

Fluid, MIL-F-5566

Silicone Fluid, DC 200

MIL-O-5606

MIL-C-3278

Distilled Water

Tap Water

MEK

Trichloroethylene

Engine Fuel, MIL-G-5572

Jet Fuel, MIL-J-5624

Jet Engine Oil, MIL-O-6081

Fluid, MIL-A3136, Type II Oil

MIL-L-6082 1100

Toluene

Xylene

Dioxane

## APPLICATION

**IMPORTANT:** Shake or stir material before applying. Constant stirring is imperative  
For best results.

Apply **ALUMAZITE ZY-138** evenly and avoid excessive buildup. If desired, additional coats may be applied after the first coat has dried five to ten minutes. Allow coated parts to dry 15 minutes before handling and final cure before using.

Through Tiodize Research, new **ALUMAZITE** corrosion coatings are formulated to meet the changing and demanding requirements of industry. Years of experience permit Tiodize to solve a wide array of corrosion problems. Our continuous research efforts let us provide our customers with improved products and processes, as well as up-to-date technical literature.

**ALUMAZITE ZY-138** can be purchased in quarts, gallons and five-gallon pails.