

# EVAPOR-RUST™ ALUMINATE

NON-ACID ALUMINIUM DE-OXIDIZER & CLEANER

*Aluminate is purchased ready to use and works best at a temperature of 48°C to 60°C.*

*Used in a dip tank situation and within the temperature parameters above, items should be cleaned within 2 to 15 minutes.*

*After cleaning remove parts and rinse with water.*

*Some items may require gentle scrubbing for best results.*

## *Evapo-Rust™ Aluminate –*

- pH 5.5
- is fast acting
- contains no fluorides
- is biodegradable
- is designed for immersion cleaning



### *Other Evapo-Rust™ Products Now Available Are:*

- Cooling System Flush:** Uses the latest technology in rust and corrosion removal to totally revitalize automotive cooling systems without the need for dismantling.
- Evapo-Rust™:** Removes even deep rust on all types of mild steel and iron.
- Rust Block:** Will prevent flash rusting on stored items for between 6 & 12 months.

For more information, please contact:  
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*Based on our award winning Evapo-Rust™ rust removing technology, Aluminate is a liquid compound designed for removing Aluminium Oxide and brightening Aluminium in recirculating washers, vibratory polishing units or dip tanks.*

*The Aluminate product is perfect for use in electro-pulse tanks as a replacement for acid type products. Like Evapo-Rust™ this product is biodegradable and extremely user friendly.*

### **How It Works:**

Aluminate is a new chemistry for removing aluminium oxide without the use of acids. Aluminate eliminates the need for extremely hazardous hydrofluoric acid etching solutions and expensive blast cabinets by removing oxides on all types of aluminium and aluminium alloys. It contains no fluorides, is non-toxic, non-corrosive, is biodegradable and contains no acids or alkalis. It is non-flammable and contains no petroleum solvents. Aluminate can be used in recirculating washers, vibratory polishing units or dip baths and is very fast acting.



Before

After 12 mins and water rinse

### **Directions:**

Aluminate has to be heated to around 50° C (warm enough to still be able to put your hands in while cleaning items). Immerse parts for two to fifteen minutes, remove and rinse with water. Aluminate will also remove dirt and scale, but for heavy deposits may require a light scrub. An old toothbrush works perfectly well. Soaking for extended times may be required for stubborn debris.

Aluminate is not sensitive to temperatures above 50°C and will still work perfectly if further heating is required. Aluminate will not harm gaskets or seals, so in most cases items being cleaned will not require dismantling.

Water lost to evaporation must be continually replaced to maintain products ability to work.

### **Cleaning vs De-rusting:**

Aluminate has a surfactant to aid in penetrating oils and dirt. However, surface contaminants DO slow the process. The soils must be penetrated before Aluminate can come in contact with the oxides. Most often the oil and grease removed while cleaning items can be scooped/removed from the top of the solution when solution has cooled.



Before

After 10 mins and light scrub with toothbrush

### **Transportation:**

Evapo-Rust™ is non-hazardous and ships by any normal postal or regular freight service.

### **Life Capacity/Storage:**

Aluminate has an indefinite shelf life and can be used over and over until it absolutely stops working. Only water is lost to evaporation. Aluminate has a tremendously high work load.

### **FAQs:**

#### **Why replace Acids with Evapo-Rust™?**

- greatly enhance the safety in the workplace
- reduce and replace the use of hazardous/inherently dangerous materials (such as acids, caustics, converters, electrical and mechanical methods)
- reduce both hazardous emissions and disposal of hazardous goods
- resulting in increased productivity

#### **Can Aluminate be painted or sprayed on?**

No. Aluminate needs to maintain a residual heat of 45-55° C to be effective. If sprayed or painted on a cold surface this temperature cannot be maintained therefore Aluminate will lose its effectiveness.

#### **Does Aluminate contain acid?**

No. Like all Evapo-Rust products Aluminate contains no acids and is biodegradable.

#### **Will Aluminate etch Aluminium if item is soaked too long?**

No. Aluminate like Evapo-Rust rust remover stops working when item is cleaned, ie bare metal.

#### **Is Aluminate a concentrate?**

No. All Evapo-Rust products come ready to use.

#### **Will Aluminate remove grease and oil?**

Yes, But it is recommended to pre clean item before soaking.

### **Evapo-Rust™ Rust Remover and Rust-Block™ are available in:**

1 litre, 5 litre, 20 litre, 100 litre and 200 litre quantities.

### **Aluminate™ and Cooling System Flush™ are available in:**

5 litre, 20 litre, 100 litre and 200 litre quantities.