

ECONOVATE A

DRY ACID SALT – ACID ETCH / DEOXIDIZER SUPPLEMENT

INTRODUCTION

Econovate A is a hydrofluoric acid replacement to enhance nitric acid for an effective acid etch and when used in low concentrations with nitric acid be an ideal deoxidizer/desmut. Used as an acid etch in surface prep sequence for chemical conversion coating, zincating and anodizing where polished surfaces are to be maintained.

BENEFITS

- Eliminates the danger of handling hydrofluoric acid
- Effective aluminum deoxidizer/desmut supplement
- Can enhance nitric acid to be used as an acid etch
- Less aggressive etch on polished surfaces

SOLUTION MAKE-UP

Aluminum Deoxidize/Desmut Acid Etch	50% v/v nitric acid + 10 – 20 g/L Econovate A 50% v/v nitric acid + 50 – 100 g/L Econovate A Note: High silicon alloys require up to 100 g/L
Magnesium Etch/Activate Conditioner for direct EN Plate	50% v/v nitric acid + 100 g/L Econovate A 300 g/L Econovate A
Glass etch or Removal of sand from castings	10% v/v sulfuric acid 50 – 100 g/L Econovate A

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OPERATING DATA

Temperature	70 – 86°F
Immersion Time	20 – 120 seconds
Agitation	Mild air agitation may be useful to ensure thorough cleaning

EQUIPMENT

Tanks	Acid resistant tanks such as polythene or PVC. Do not use ceramic or glass tanks.
Heaters	Water jacket, PTFE
Ventilation	Recommended

Notes:

Hydrofluoric acid conversion: 1% v/v HF = 10 g/L Econovate A as a starting point

STORAGE

Store in original containers above 40°F

SAFETY

CAUTION! Econovate A and working solutions contain acidic components. Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Read and understand Material Safety Data Sheet before using this product.

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PRODUCT GROUPS

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Econovate A	223004

NOTICE

The information and recommendations of PMD (UK), Ltd. and Automated Chemical Solutions, Inc., and its representatives, regarding this product are, to the best of our knowledge, true and accurate. We make no guarantee of results because the conditions of actual use are beyond our control. We assume no liability for damages or penalties resulting from the use of this product or following our recommendations. Our recommendations and suggestions for use of this product are not intended to grant license to operate under or infringe any patent.

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