

## NuEtch E 3 – Liquid Alkaline Glass & Aluminum Etchant

### Description:

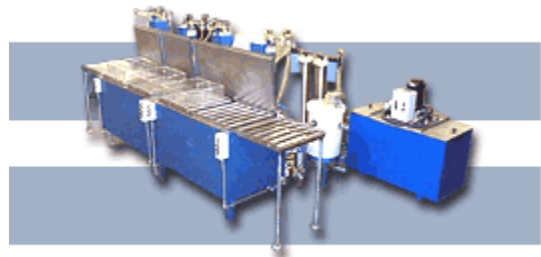
**NuEtch E 3** a heavy-duty glass and aluminum etchant, formulated for immersion applications. NuEtch E 3 has built in non-ionic surfactants to help remove soils and provide uniform etching. This non-fluoride based formula is safer to work with than most hydrofluoric based etchants.

### Applications:

**Aluminum:** Use at 5-25%, from ambient to 180°F, for 5 to 300 seconds\*. Rinse thoroughly after processing. NuEtch E 3 is suitable as the first stage of most processes. In cases where heavy surface contamination is normal, a separate alkaline cleaner stage may be necessary. A product like NuGeneration Technologies' NuWet DM 33 is an excellent pre-etch cleaner. Your NuGeneration Technologies technical sales representative can help you in determining if a pre-etch cleaner is necessary.

### Typical Usage Parameters:

	NuEtch E 3
Concentration Range	5-10% (20:1 to 10:1)
Operating Temperatures	Ambient to 180°F
Immersion/Ultrasonic	•
Aluminum and Glass	Chemical etch
Stainless Steel	No attack
Most Plastic Resins	No attack
Color	Amber
Form	Liquid



### Physical Properties:

	NuEtch E 3
pH, Concentrate	~14
pH, @ 10% b.v.	13.5
Bulk Density, #/gal	10.0
VOC (@ max. use Conc.)	None
Solubility in Water	Complete
Flash Point	None
Fluoride	None
Chelates	None



**Handling:** Corrosive material; handle with caution. Use with adequate ventilation especially with aluminum.

**Availability:** Available in 5, 55 and 300-gallon containers. Bulk tank shipments also available.

**Shipment:** Freight classification: "Corrosive Liquid, NOS, 8, PGIII (Potassium hydroxide mixture) UN1760."

**Storage:** Keep from freezing. Store between 50-120°F. Product may freeze at temperatures < 50°F. If freezing occurs, thaw and mix until uniform.

**Disposal:** Dispose of in accordance with local, state, and federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-NuGen or email: [info@nugentec.com](mailto:info@nugentec.com).