

# NuBrite 44S

## Technical Data Sheet

### *Metal Deoxidizer, Desmut & Passivator*

Industrial strength solution used for deoxidizing and brightening Stainless Steels, desmutting Aluminum and Aluminum alloys, and descaling Titanium Zirconium and Inconel.

#### **Description:**

NuGeneration Technologies' NuBrite 44S is an acidic liquid solution used to remove oxides, smut, mil scale, heat scale and discoloration from Stainless Steel, Aluminum, Brass, Copper, Zinc, Magnesium, Titanium, Zirconium and Inconel. NuBrite 44S is applied by immersion tanks and is a great passivating solution for Stainless Steels. May also be used as a brightener for certain metals. This product is a drop in replacement for Chemetall Americas Oakite Deoxidizer SS. NuBrite 44S contains Hydrofluoric Acid (HF), and should be used by professionals only.

#### **Characteristics:**

NuBrite 44S was formulated to quickly and effectively desmut Aluminum and Aluminum alloys prior to conversion coating, deoxidize and brighten stainless steels, and descale Titanium, Zirconium and Inconel. NuBrite 310 may also be used to passivate Stainless Steel.

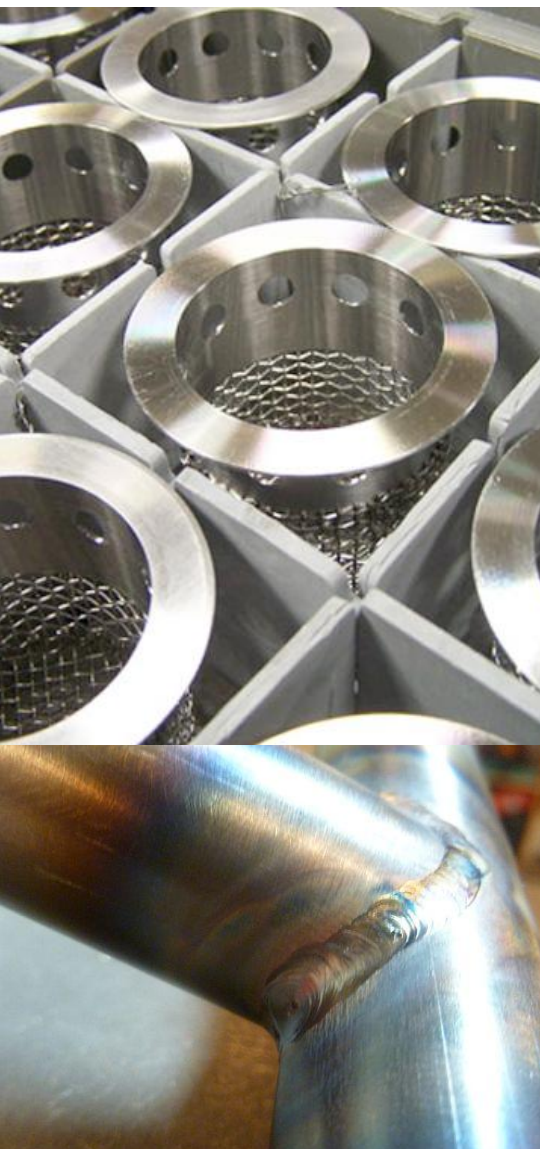
#### **Directions for Use:**

NuBrite 44S should be used at the following parameters for the listed applications: For desmutting Aluminum and Aluminum alloys use at 25-50% from ambient to 110 °F, for 5-30 seconds. For deoxidizing and brightening stainless steels use at 10-100% from ambient to 100 °F, for 5-30 seconds. For descaling Titanium Zirconium and Inconel use at 10-50% from ambient to 110 °F, for 5-30 seconds. Rinse thoroughly after use. Do not heat above 120 °F.

### **Product Benefits**

- Effective on Stainless Steel, Aluminum, Brass, Copper, Zinc, Magnesium, Titanium, Zirconium and Inconel
- Removes oxides, smut, mil scale, heat scale and discoloration
- Can be used as a passivation solution for Stainless Steel





## Physical Properties

Use concentration (immersion, on Aluminum))	20-50% by volume
Use concentration (immersion, on Stainless Steel)	20-100% by volume
Bulk Density	11.0 lbs/gal
Operating Temps	Ambient to 100°F
pH, Concentrate	< 1.0
pH, @5%	< 1.0
VOC (Concentrate)	0 g/L
Flash Point	None
Chelates	No
Soluble in water	Complete
Contains Hydrofluoric acid?	Yes
Corrosive	Yes

**Availability:** 5-gallon and 55-gallon containers, 275-gallon totes and bulk tankers.

**Shipment:** UN2922 Corrosive liquids, toxic, n.o.s. (Nitric acid, Hydrogen Fluoride), 8 (6.1), PG II, ERG #154

**Storage:** Keep out of direct sunlight. Keep from freezing. Store between 40 ° F - 120 °F.

**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).

**Regulatory:** This product is classified and labeled according to the Globally Harmonized System (GHS).

**1155 Park Avenue  
Emeryville, CA 94608**

Phone: (888) 99-NuGen

Phone: (888) 996-8436

Fax: (707) 891-3012

[www.NuGenTec.com](http://www.NuGenTec.com)

[info@NuGenTec.com](mailto:info@NuGenTec.com)

### EMERGENCY OVERVIEW:

This product may cause severe burns to the skin and eyes. Toxic if swallowed. Fatal in contact with skin.

### SAFETY:

Please make sure you have read and understand the product label and SDS before using this product. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash thoroughly after handling. Observe label precautions.