

# NuBrite 310

## Technical Data Sheet

### Industrial Strength Metal Deoxidizer

Industrial strength solution used for removal of oxides, smut, mil scale, heat scale, and discoloration from Stainless Steel, Aluminum, Brass, Copper, Zinc, Magnesium, Titanium, Zirconium and Inconel.

#### Description:

NuGeneration Technologies' NuBrite 310 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 310 removes oxidation and scale and brings back original metal luster, while promoting efficient operation and reducing power consumption. NuBrite 310 contains Hydrofluoric Acid (HF) and Nitric Acid (HNO<sub>3</sub>) and should be used for professional use only.



#### Characteristics:

NuBrite 310 was formulated to quickly and effectively deoxidize, clean, and brighten Stainless Steel, Aluminum, Brass, Copper, Zinc, Magnesium, Titanium, Zirconium and Inconel and return them to their original luster by removal of oxides, smut, mil scale, heat scale and discoloration. NuBrite 310 may also be used to passivate Stainless Steel.

#### Directions for Use:

NuBrite 310 is effective at ambient temperatures. However, it is normally used at 20-100% by volume of water up to 100 °F in spray, immersion and ultrasonic applications. The dwell time and temperature parameters can vary due to the type and extent of soils and oxides to be removed, or degree of brightness to be achieved.

### 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:** UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid, Sulfuric acid), 8, 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).

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## EMERGENCY OVERVIEW:

This product may cause severe burns to the skin and eyes. Harmful if swallowed. Toxic in contact with skin. May damage fertility or the unborn

### **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.