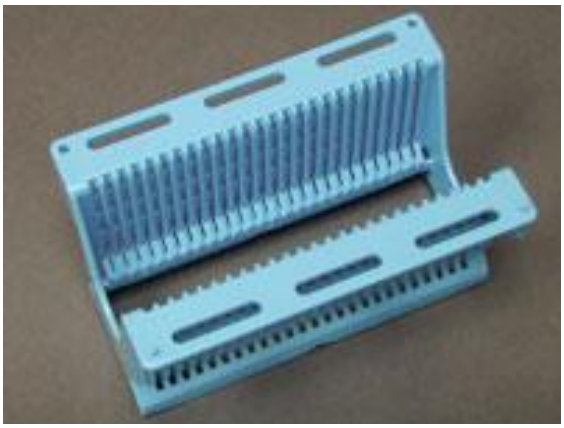
# NuRinse® LF12

*Technical Data Sheet*

## *High Purity Semiconductor Grade Precision Cleaner for Plastic, Wafers, PCBs, Heads, Sliders*

**Description:** **NuGeneration Technologies' NuRinse® LF12** is a non-toxic, aqueous cleaning solution used as a spray or tank cleaner for critical components especially aluminum, polymers, glass, printed circuit boards, electronic assemblies, medical devices, aerospace components and process cassettes (caddies). Non-toxic, aqueous, ultrasonic or spray cleaning solution for removal of greases, inks polishing and buffing compounds, oils, fingerprints, drawing compounds, metalworking fluids, pastes, organic and inorganic residues and adhesives from a wide variety of substrates. Safe for use on most plastics and metals.



**Characteristics:** NuRinse LF12 was formulated to be used at both ambient and elevated temperatures. NuRinse LF12 is an alkaline, non-silicated, non-chelated, non-phosphated aqueous cleaner that is easily biodegradable. NuRinse LF12 is designed for easy disposal, typically without any neutralization. Safe to use on all surfaces. Removes slurries including colloidal silica, aluminum oxide, and diamond, heavy cleaner residues, salts, particles, fines, water stains, oils etc. NuRinse LF12 is a more alkaline version of our milder pH cleaner NuRinse LF 1X. NuRinse LF12 contains no toxic solvents, and has only a mildly alkaline pH, making it the intelligent choice for worker safety, and allowing used baths to be disposed of without a DG classification.

### Directions for Use:

**NuRinse LF12** is used at 1-10% concentration, and should be used at ambient temperatures up to 75 °C (167 °F) for 1 to 5 minutes, in ultrasonics/megasonics. The parameters can vary due to the type and extent of soils to be removed. After washing cycle, parts should be rinsed thoroughly in water, and dried. Parts may be alcohol-rinsed in order to facilitate drying and water displacement.

## Product Benefits

- Non-toxic, aqueous solution that removes organics and inorganics..
- Disperses particulates, oils, and greases, preventing redeposition.
- Safe for use on mst plastic and metal substrates.

# Physical Properties

| Physical Properties | |
|---|---|
| Use concentration (ultrasonics) | 1-10% by volume |
| Bulk Density | 8.7 lbs/gal |
| Operating Temperature | Ambient to 75 °C (167 °F) |
| Boiling Point | 100 °C |
| pH, @100% | 12.0 |
| pH @ 1% | 12.0 |
| VOC (Concentrate) | 0 g/L |
| Flash Point | None |
| Toxic? | No |
| Corrosive? | No |
| Dangerous Goods? | No |
| Foam Levels | Very low |

**Availability:** 5-gallon pails, 55-gallon drums, and 275 gallon totes

**Shipment:** Non-regulated material, liquid

**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.

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

Causes skin irritation. Causes serious eye damage.

## 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.