

## PV Klean – Alkaline Cleaner for Photovoltaic Cells.

**No: silicates, phosphates, chlorides, silicones, chelates**

### Applications:

NuGeneration Technologies **PV Klean** is an alkaline, non-silicated, non-chelated, non-phosphated aqueous cleaner that is easily biodegradable. **PV Klean** is designed for easy disposal, neutralization only. Safe to use on all surfaces. Removes slurries including colloidal silica, aluminum oxide, cleaner residues, salts, particles, fines, water stains, oils, coolants, lubricants etc. **PV Klean** was specially formulated for the photovoltaic cell (solar cell manufacturing market).

A spray / ultrasonic / tank cleaner for critical components including, polymers, glass, printed circuit boards, electronic assemblies, medical devices.

### Typical Usage Parameters:

|   | <b>PV Klean</b>         |
|---|-------------------------|
| Description                               | Alkaline Liquid         |
| Use Concentration Range                   | ½ – 5%                  |
| <b>Operating temps</b>                    | <b>Ambient to 180°F</b> |
| Spray                                     | Yes                     |
| Ferrous metals                            | Yes                     |
| Aluminum Alloys                           | Yes                     |
| Non-ferrous alloys                        | Yes                     |
| Glass                                     | Yes                     |
| Plastics/polymers                         | Yes                     |
| Meets USDA/FDA food cleaning requirements | YES                     |

### Physical Properties:

|                     | <b>PV Klean</b>                                       |
|---------------------|---|
| pH, concentrate     | 12.5  |
| pH, @ 1% bv         | 11.5  |
| Bulk Density, #/gal | 9.47  |
| Foam levels         | Moderate  |
| Rinse-ability       | Excellent   |
| Solubility in water | Complete  |
| Biodegradable       | Yes   |
| Chelates            | No  |
| Corrosive           | Yes (Concentrate Only)<br>Not corrosive at use Levels |
| Ozone friendly      | Yes   |
| Phosphates          | None  |
| Silicated           | No  |
| Odor                | None  |



**Availability:** 5-gallon and 55-gallon containers; 300-gallon tote-bins and bulk tankers.

**Shipment:** Freight classification is "corrosive liquid (potassium hydroxide mixture) UN1760, 8, PG III"

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