

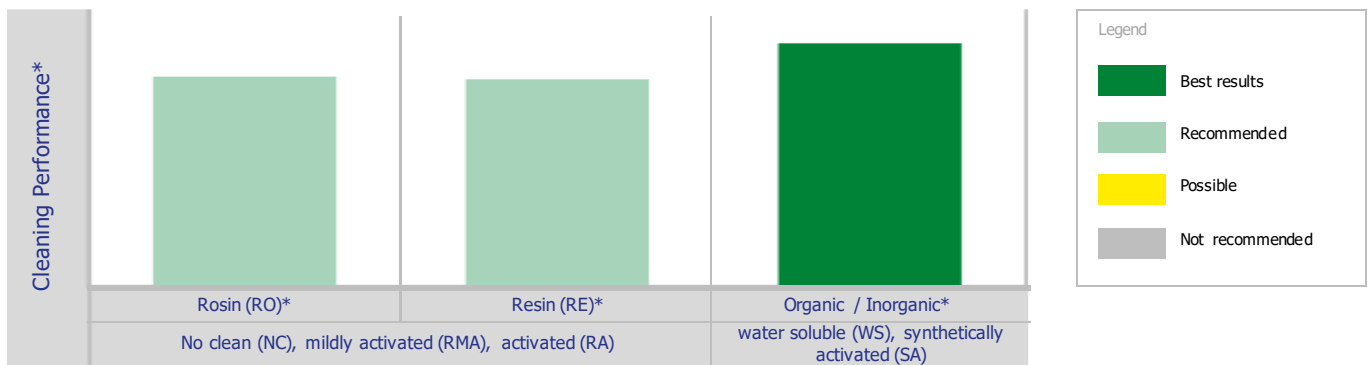
## VIGON® US

Water-based, alkaline defluxing agent for dip tank processes



VIGON® US is a water-based cleaning agent specifically developed for the use in ultrasonic, spray-under-immersion and centrifugal cleaning equipment. Based on the MPC® Technology, VIGON® US removes all types of flux residues from electronic assemblies, flip chip packages and CMOS.

### Areas of application – PCBA Defluxing



\* J-STD-004

### Advantages compared to other cleaners

- Specifically designed for the use in dip tank systems.
- Works exceptionally well in capillary spaces and is suitable for under low standoff component cleaning.
- Can be easily rinsed without leaving residues on the surface and provides low ionic contamination of cleaned parts.
- Its high bath loading capacity ensures an extended bath life and low maintenance cost.
- Has no flash point and does not require explosion proof equipment.
- Ensures a void-free underfill by removing all tacky fluxes from Flip Chips/CMOS.
- Improves the image resolution/reduces pixel defects due to particle removal from CMOS image sensors.

### Process Steps

| Cleaning Process                             | Parts                      | 1. Cleaning | 2. Rinsing | 3. Drying                  |
|--|----------------------------|-------------|------------|----------------------------|
| Dip tank (Ultrasonic, Spray-under-immersion) | PCBAs<br>(Flip Chip, CMOS) | VIGON® US   | DI-water   | Hot air or circulating air |
| Centrifugal                                  | PCBAs<br>(Flip Chip, CMOS) | VIGON® US   | DI-water   | Hot air                    |

## Independent Test Center - Largest choice of leading machines, chemistry & analytics



Machine Test Center



Analytical Center

Visit our Machine Test Center and clean your electronic assemblies in cleaning machines of leading international equipment suppliers.

**Your benefits:**

- You are introduced to the cleaning machines & you clean your PCBAs under production conditions supported by your ZESTRON process engineer
- You check the cleaning results immediately on site (ROSE, optionally IR, IC, SEM/EDX etc.) for maximum comparability & result transparency
- You receive a process guarantee including detailed process parameters for the machine/cleaner combination that we recommend

Contact ZESTRON's process engineers for cleaning trials:

Europe: Phone +49 (841) 63526; [techsupport@zestron.com](mailto:techsupport@zestron.com) / South Asia: Phone +604 (3996) 100; [support@zestronasia.com](mailto:support@zestronasia.com)

Or visit our website for a virtual tour: <http://www.zestron.com/en/company/virtual-company-tour.html>

## Technical Data\*

|   |                                |                           |
|---|--------------------------------|---------------------------|
| Density   | (g/ccm) at 20°C/68°F           | 0.99                      |
| Surface tension                                 | (mN/m) at 25°C/77°F            | 30.8                      |
| Boiling point                                   | °C/°F                          | 165 - 212°C / 329 - 414°F |
| Flash point                                     | °C/°F                          | None until boiling        |
| pH value  | 10g/l H <sub>2</sub> O         | 11.3                      |
| Vapor pressure                                  | (mbar) at 20°C/68°F            | Approx. 19                |
| Cleaning temperature                            | °C/°F                          | 40 - 60°C / 104 - 140°F   |
| Solubility in water                             |                                | Soluble                   |
| Application concentration <sup>1</sup> (inline) | Concentrate                    | 15 - 30 %                 |
| HMIS Rating                                     | Health-Flammability-Reactivity | 0 - 0 - 0                 |

\* Please note that the following information represents VIGON® US at 20 % concentration.

<sup>1</sup> The concentrate of VIGON® US has to be diluted in DI-water.

## Product Features & Cleaning Standards

|  |   |  |
|--|---|--|
|  | 100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)                              | Electronic assemblies cleaned with VIGON® US in a ZESTRON specified process meet the following industry standards: <ul style="list-style-type: none"> <li>▪ IPC-A-610 Visual cleanliness</li> <li>▪ J-STD 001 Ionic and resin cleanliness</li> <li>▪ IPC 5704 Cleanliness requirements for bare boards</li> <li>▪ IPC-Hdbk-65B Guidelines for cleaning of printed boards and assemblies</li> </ul> |
|  | Extensively tested and suitable for cleaning lead-free solder pastes                  |  |
|  | MPC® Technology ensures an extremely long bath life when used in a closed loop system |  |
|  | Product is free of any critical substances according to SIN & SVHC lists              |  |

## Environmental, health & safety regulations

- VIGON® US is water-based and biodegradable.
- VIGON® US is formulated free of any halogenated compounds and environmentally friendly.
- Refer to the SDS for specific handling precautions and instructions.

## Availability & Storage

|           |   |
|-----------|---|
| 1 Liter   | ✓ |
| 5 Liter   | ✓ |
| 25 Liter  | ✓ |
| 200 Liter | ✓ |

- Available as concentrate
- Store VIGON® US in the original container at a temperature between 5 - 30°C / 41 - 86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.



## Further product information

- Material Compatibility  
Please review the Material Compatibility overview before using the cleaning agent.
- MPC® Technology Sheet  
Detailed information on MPC® Technology
- Filter recommendation  
To take full advantage of MPC® Technology and further extend the bath life of VIGON® US, filtration is recommended.
- Safety data sheet

## Available Process – Optimization – Products

To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration and regular bath treatment. For VIGON® US a variety of process support products are available:



### Concentration measurement:

- ZESTRON® EYE for automated real-time concentration monitoring providing 100% traceability,
- ZESTRON® Bath Analyzer 10 a manual test method for fast and reliable checks on cleaner concentration.



### Cleaning agent regeneration:

- ZESTRON® Adsorber HM1 allows for the adsorption of heavy metals in your cleaning process when VIGON® US is applied.

### Authorized Distributor

#### Mectronics Marketing Services

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