

VIGON® RC 101

Water-based cleaning agent for cleaning of reflow ovens and wave solder systems



VIGON® RC 101, based on MPC® (Micro Phase Cleaning) Technology, was specifically developed to remove all types of baked-on flux residues from reflow ovens and wave soldering systems. It reliably removes re-condensed fluxes from assemblies. VIGON® RC 303 is the successor product with increased cleaning performance.

Areas of Application: Reflow Ovens and Wave Solder Systems

| Recommended Applications: | Additional Product Information |
|-----------------------------|---------------------------------|
| Low solid flux residues | Material Compatibility Overview |
| Rosin based flux residues | |
| Water soluble flux residues | MPC® Technology Sheet |
| Synthetic fluxes | |
| Fumigation contamination | Safety Data Sheet |

Applies to leaded and lead-free solder pastes and liquid fluxes

Key Benefits

- VIGON® RC 101 has a mild formulation with a low alkaline pH-value. No special labeling is required.
- Excellent material compatibility with aluminum and epoxy surfaces.
- Suitable for pre-cleaning of condensation traps.
- VIGON® RC 101 has no flash point thereby can be directly applied onto cold or warm surfaces (30 – 40°C/86 – 104°F).
- The cleaning agent doesn't contain any ingredients that could leave behind residues on the oven surfaces. This avoids harmful condensation on the assembly surfaces after restarts.
- Due to the short soaking time, a quick and efficient cleaning process can be achieved and long machine downtimes can be avoided.
- Reduced cleaning agent consumption compared to IPA.

Process Steps

| Cleaning Process | Parts | 1. Cleaning 2. Rinsing | | 2. Drying |
|--------------------|--|--|---|-----------|
| | | | | |
| Manual cleaning | Reflow ovens and Wave soldering systems | VIGON® RC 101 (Spray onto the surface) | Wiped clean with a cloth or lint-free paper towel. | Air dry |
| Automated cleaning | Conveyor fingers in wave soldering systems | VIGON® RC 101 (Introduce in cleaning reservoir) | Automatic brushing device in wave solder oven wipes clean the conveyor fingers. | Air dry |

Please refer to the Material Compatibility Overview prior to cleaning plastics.

Technical Data: VIGON® RC 101 as a ready-to-use solution

| | | |
|---------------------------|-----------------------------------|-----------------------|
| Density | (g/cm ³) at 20°C/68°F | 0.99 |
| Surface tension | (mN/m) at 25°C/77°F | 29.4 |
| Boiling point | °C/°F | >99 – 212 / 210 – 414 |
| Flash point | °C/°F | None |
| pH value | 10g/l H ₂ O | 10.8 |
| Vapor pressure | (mbar) at 20°C/68°F | Approx. 11 |
| Cleaning temperature | °C/°F | 20 – 50 / 68 – 122 |
| Solubility in water | | Soluble |
| Application concentration | Ready to use | Pure |
| HMS Rating | Health-Flammability-Reactivity | 0 – 0 – 0 |

Product Features & Cleaning Standards



MPC® Technology ensures an extremely long bath life when used in a closed loop system



100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)



Product is free of any critical substances according to SIN & SVHC lists

Environmental, Health & Safety Regulations

- Water-based, biodegradable and non-hazardous material.
- Formulated free of any halogenated compounds.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

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

- Available as a ready-to-use solution
- Store VIGON® RC 101 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.



Contact ZESTRON's Application Engineering Team for more information or trials:
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