

VIGON® RC 303

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



VIGON® RC 303, based on MPC® (Micro Phase Cleaning) 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 condensation traps and heat exchangers. As the successor to VIGON® RC 101, VIGON® RC 303 delivers improved cleaning performance along with increased operator safety.

Areas of Application: Reflow ovens and wave solder systems

Recommended Solder Paste Applications:	Additional Product Information
No Clean (NC)	Material Compatibility Overview
Water Soluble (WS)	
Rosin (R)	MPC® Technology Sheet
Rosin Mildly Activated (RMA)	
Rosin Activated (RA)	Safety Data Sheet

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

Key Benefits

- Improved cleaning performance.
- VIGON® RC 303 has no flash point thereby can be directly applied onto cold or warm surfaces (30 – 40°C/86 – 104°F).
- Short soaking time thereby improving overall cleaning process and minimizing equipment downtime.
- Excellent material compatibility with aluminum and epoxy surfaces.
- Improved formulation with reduced VOC emissions.
- Reduced cleaning agent consumption compared to IPA.
- Low odor and non-hazardous

Process Steps

Cleaning Process	Parts	1. Cleaning		2. Drying
Manual cleaning	Reflow ovens and Wave soldering systems	VIGON® RC 303 (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 303 (Introduced 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 303 as ready-to-use mixture

Density	(g/cm ³) at 20°C/68°F	1.01
Surface tension	(mN/m) at 25°C/77°F	31.8
Boiling point	°C/°F	> 99 / > 210.2
Flash point	°C/°F	None
pH value	10g/l H ₂ O	10.1
Vapor pressure	(mbar) at 20°C/68°F	Approx. 22
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 and biodegradable.
- 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 303 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.



Supplementary equipment



Pressure Sprayer

- For fast and easy dispensing in reflow oven and wave solder cleaning applications
- Especially developed for spraying large surfaces within seconds
- Capacity: 1 Liter

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