

VIGON® RC 101

Water-based cleaning medium for reflow and wave solder equipment



Based on the MPC® Technology, VIGON® RC 101 was specifically developed to remove all types of baked-on flux residues from reflow and wave solder equipment. It reliably removes re-condensated fluxes and emissions from assemblies.

Areas of application: Solder ovens		Additional product information :
Low solid flux residues*	++	Technical Information 3: Material compatibility overview Application Recommendation: Specific process parameters for your cleaning trial MPC® Technology Information Sheet: Additional information on MPC® Technology
Rosin based flux residues*	++	
Water soluble flux residues*	++	
Synthetic fluxes*	++	
Fumigation contamination	++	

++ highly recommended, best results + recommended 0 possible - not recommended
 * Valid for all standard-, lead-free and lead-based solders

Technical Centers - ① America, ② Europe, ③ Malaysia, ④ North-China, ⑤ South-China
Cleaning Process Solutions under Production Floor Conditions



Contact ZESTRON's Process Engineering Team for free-of-charge cleaning trials:
 Phone: +49-841-635-26; Email: techsupport@zestron.com

Advantages compared to other cleaning agents:

- VIGON® RC 101 has a mild formulation with a low alkaline pH-value. Therefore, no special labeling is required.
- Excellent material compatibility with aluminum and epoxy surfaces
- The cleaning agent is also suitable for the pre-cleaning of condensation traps.
- VIGON® RC 101 has little odor.

Advantages compared to other oven cleaners:

- VIGON® RC 101 has no flash point and therefore can be applied directly onto cold or warm surfaces (30 - 40 °C / 86 - 104 °F).
- The medium does not contain any ingredients, which could leave residues on the oven surfaces. This avoids harmful condensations 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.

Advantages - conveyor fingers cleaning:

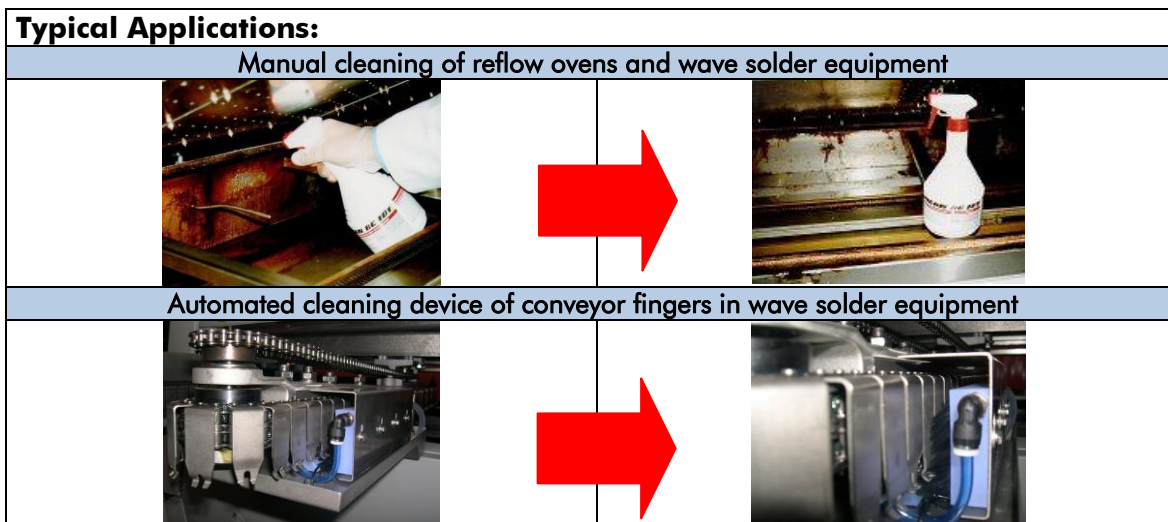
- Reduced cleaning agent consumption compared to IPA.
- Its no flashpoint formulation significantly increases the operator's safety.

Please refer to the material compatibility list (Technical Information 3) before cleaning plastics.

TECHNICAL INFORMATION 1

ZESTRON

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Process Steps	1. Cleaning	2. Rinsing	3. Drying
Manual cleaning of reflow and wave solder ovens	VIGON® RC 101 (Spray onto the surface)	The surface can be wiped clean with a cloth or paper towel.	Open air
Automated cleaning of conveyor fingers in wave solder ovens	VIGON® RC 101 (In cleaning tank)	Automatic brushing device in wave solder oven wipes clean conveyor fingers.	Open air

Technical Data		
Density	(g/ccm) at 20°C/68°C	0.99
Surface tension	(mN/m) at 25°C/77°F	29.4
Boiling range	°C/°F	99 – 212 / 210 – 414
Flash point	°C/°F	None
pH-value	10g/l H ₂ O	10.26
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
HMIS Rating	Health/Flammability/Reactivity	0 – 0 – 0

PRODUCT FEATURES



Extensively tested and suitable for cleaning of lead-free solder pastes



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



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



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

Environmental, health and safety regulations:

- VIGON® RC 101 is water-based and biodegradable.
- VIGON® RC 101 is formulated free of halogenated compounds and is very environmentally friendly and considered a non-hazardous material.
- No special precaution for handling VIGON® RC 101 is required.

Availability/Storage:

- VIGON® RC 101 is available as a ready-to-use solution in 1l spray bottles, 5l or 25l containers and 200l drums.
- 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.

Alternative product recommendation:

- For dip-tank cleaning of removable oven parts, i.e. condensation traps or solder frames, we recommend ATRON® SP 200.
- This also applies for extremely baked-on residues.