

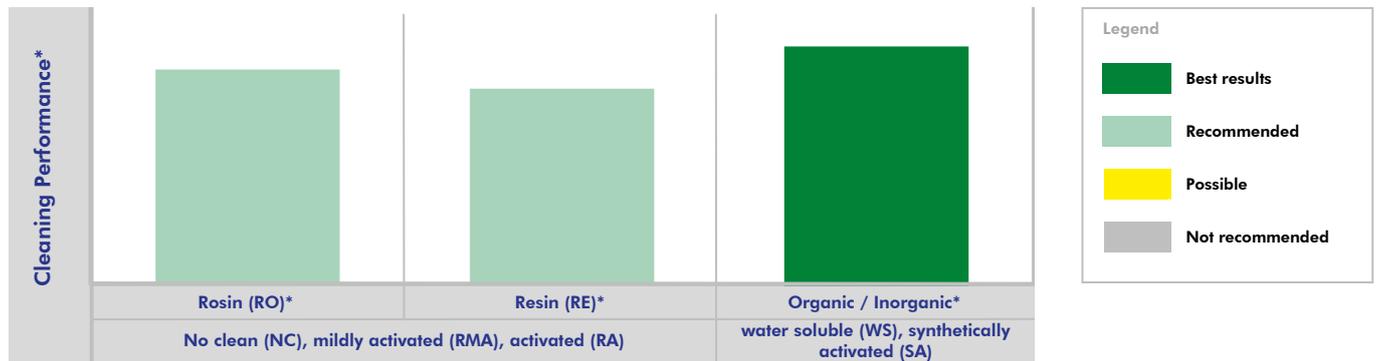
## VIGON® A 250

Water-based defluxing agent with mild formulation



VIGON® A 250 is a water-based MPC® cleaning agent designed to remove flux residues and solder pastes from electronic assemblies. Due to its mild formulation, the cleaning agent is especially suitable for longer exposure times. VIGON® A 250 is developed for usage in spray equipment (e.g. “dish washer” systems) as well as dip tank equipment. It is also recommended for cleaning Power LEDs after die attach.

### Areas of application – PCBA Defluxing



\* J-STD-004

### Advantages compared to other cleaners

- Due to its mild formulation, VIGON® A 250 is especially suitable for longer exposure times.
- Surfactant-free formulation prevents the formation of white residues on cleaned parts and cleaning equipment
- Optimal flux removal after die attach increases wire bonding quality as well as light conversion and life time of Power LEDs.
- Due to its excellent filterability VIGON® A 250 features an extended bath life.
- Has no flash point and does not require an explosion-proof environment.
- Does not foam in spray applications and has a low odor.

### Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (batch & inline)	PCBAs, (Hybrids, Power LEDs)	VIGON® A 250	DI-water	Hot air or circulating air
Dip tank (US)	PCBAs, (Hybrids, Power LEDs)	VIGON® A 250	DI-water	Hot air or circulating air
Centrifugal, Dip tank (SUI)	Power LEDs	VIGON® A 250	DI-water	Hot air or circulating 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	1.00
Surface tension	(mN/m) at 25°C/77°F	29.5
Boiling point	°C/°F	100 - 212°C / 212 - 414°F
Flash point	°C/°F	None until boiling
pH value	10g/l H <sub>2</sub> O	10.0
Vapor pressure	(mbar) at 20°C/68°F	Approx. 20
Cleaning temperature	°C/°F	40 - 60°C / 104 - 140°F
Solubility in water		Soluble
Application concentration <sup>1</sup> (inline)	Concentrate	15 - 20 %
Application concentration <sup>1</sup> (batch)	Concentrate	20 - 30 %
HMIS Rating	Health-Flammability-Reactivity	1 - 0 - 0

\* Please note that the following information represents VIGON® A 250 at 20 % concentration.

<sup>1</sup> The concentrate of VIGON® A 250 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® A 250 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® A 250 is water-based and biodegradable.
- VIGON® A 250 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® A 250 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® A 250, 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® A 250 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® A 250 is applied.