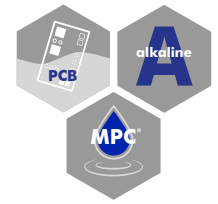


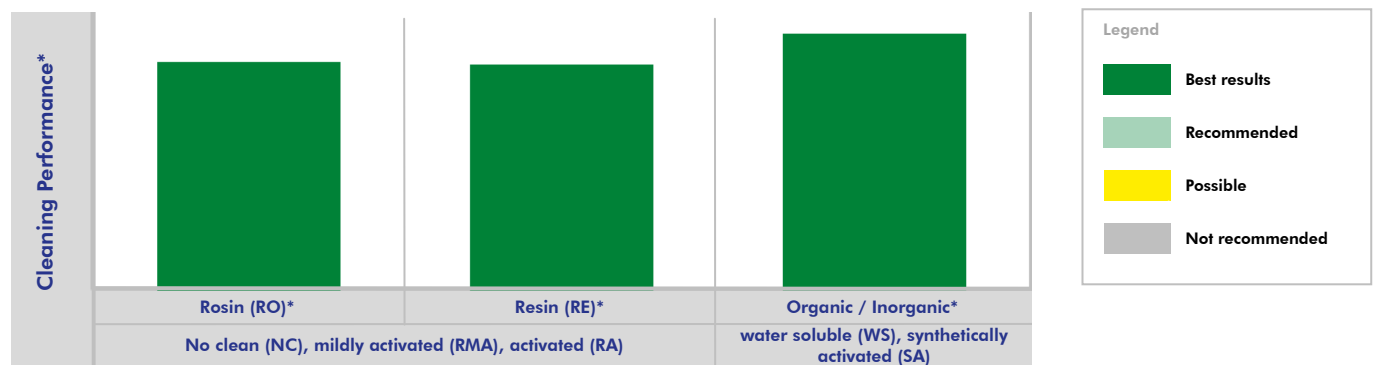
VIGON® A 200

Water-based, alkaline defluxing agent



VIGON® A 200 is a water-based cleaning medium specifically developed for the use in high and medium pressure spray equipment such as inline or batch machines. Based on the MPC® Technology, VIGON® A 200 removes all types of flux residues from electronic assemblies, ceramic hybrids, power modules and lead frames. VIGON® A 200 meets the highest cleanliness requirements for subsequent wire bonding and coating steps.

Areas of application – PCBA Defluxing



* J-STD-004

Advantages compared to other cleaners

- Ensures highest cleanliness levels for subsequent wire bonding and coating steps, suitable for low standoffs.
- Surfactant-free formulation and excellent rinseability, does not leave any residues on the surface.
- Can easily be filtered and therefore provides an extended bath life and reduces cleaning agent costs.
- Has no flash point and thus can be applied in all spray-in-air equipment without explosion proof.
- Does not foam, even in high pressure applications.
- Formulated free of halogenated compounds and has a low odor.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCBAs, (Power Modules, Leadframes, Ceramic Hybrids)	VIGON® A 200	DI-water	Hot air or circulating air
Dip tank	PCBAs, (Power Modules, Leadframes, Ceramic Hybrids)	VIGON® A 200	DI-water	Hot air or circulating air

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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 / South Asia: Phone +604 (3996) 100; 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	28.7
Boiling point	°C/°F	100 - 212°C / 212 - 414°F
Flash point	°C/°F	None until boiling
pH value	10g/l H ₂ O	10.9
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 ¹	Concentrate	15 - 30%
HMIS Rating	Health-Flammability-Reactivity	0 - 0 - 0

* Please note that the following information represents VIGON® A 200 at 20 % concentration.

¹ The concentrate of VIGON® A 200 has to be diluted in DI-water.

Product Features & Cleaning Standards

<p>100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)</p>	<p>Electronic assemblies cleaned with VIGON® A 200 in a ZESTRON specified process meet the following industry standards:</p> <ul style="list-style-type: none"> ■ IPC-A-610 Visual cleanliness ■ J-STD 001 Ionic and resin cleanliness ■ IPC 5704 Cleanliness requirements for bare boards ■ IPC-Hdbk-65B Guidelines for cleaning of printed boards and assemblies
<p>Extensively tested and suitable for cleaning lead-free solder pastes</p>	
<p>MPC® Technology ensures an extremely long bath life when used in a closed loop system</p>	
<p>Product is free of any critical substances according to SIN & SVHC lists</p>	

Environmental, health & safety regulations

- VIGON® A 200 is water-based and biodegradable.
- VIGON® A 200 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 200 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 200, 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 200 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 200 is applied.