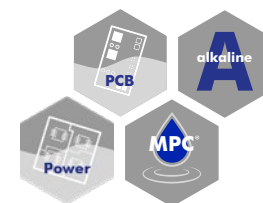


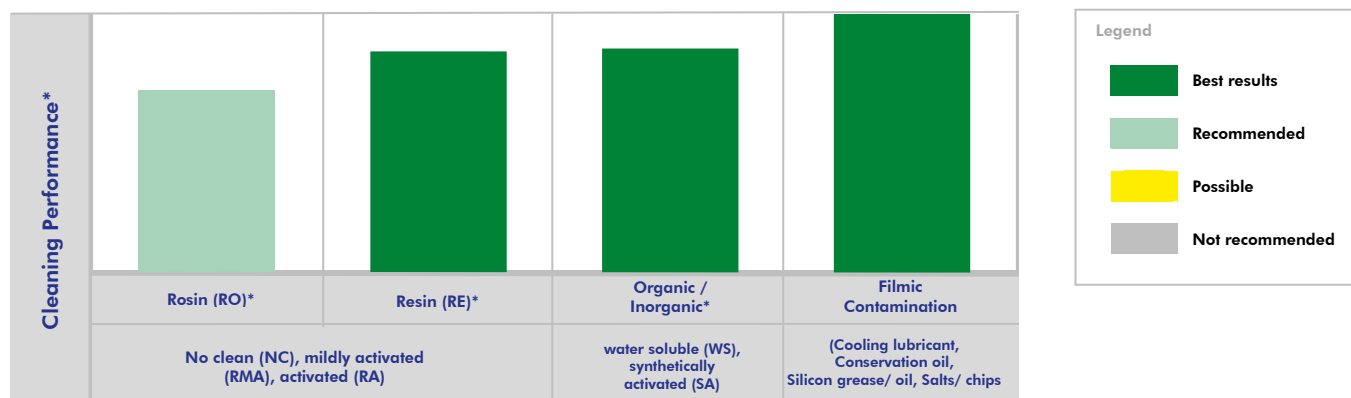
## VIGON® ME 100A



Water-based defluxing agent for high surface energies

VIGON® ME 100A is a water-based, mildly alkaline cleaning agent especially developed for spray-in-air processes. The product is particularly suitable for the removal of flux residues from PCBAs containing components with stainless steel, copper or aluminum surfaces, as well as for the cleaning of metal parts going into high-end electronics such as power electronics. On these metal parts VIGON® ME 100A generates high surface energies up to 60 mN/m for subsequent processes. Furthermore, it has an excellent material compatibility and can also be used for the removal of filmic contamination (grease/oils and cooling lubricants).

### Areas of application –Defluxing of PCBA, Power Electronics and Metal Parts



\*J-STD-004

### Advantages compared to other cleaners

- Excellent performance for the removal of flux residues from PCBAs, as well as filmic contamination (grease/oils and cooling lubricants).
- Achieves very high surface energies up to 60 mN/m on metal surfaces, like aluminum, copper or stainless steel.
- Excellent material compatibility.
- No hazardous good, therefore high operator safety, no ex-proof protection required.

### Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCBAs, Power Electronics, Metal parts	VIGON® ME 100A	DI-water <sup>1</sup>	Hot air or circulating air

<sup>1</sup> The DI-water should have a temperature of 25-40°C.

## 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: +49 8453 41995 318; [techsupport@zestron.com](mailto:techsupport@zestron.com) / South Asia: +604 (3996) 100; [support@zestronasia.com](mailto:support@zestronasia.com)





## Technical Data\*

Density	(g/ccm) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	27.1
Boiling point	°C/°F	> 98°C / > 208.4°F
Flash point	°C/°F	None until boiling
pH value	10g/l H <sub>2</sub> O	9.3
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	10 - 20 %
Application concentration <sup>1</sup> (batch)	Concentrate	15 - 20 %
HMS Rating	Health-Flammability-Reactivity	1 - 0 - 0

\* Please note that the following information represents VIGON® ME 100A at 20 % concentration.

<sup>1</sup> The concentrate of VIGON® ME 100A has to be diluted in DI-water.

## Product Features & Cleaning Standards

 <p>100% compliance with EU guidelines (RoHS 1, 2 &amp; 3, WEEE)</p>	<p>Electronic assemblies cleaned with VIGON® ME 100A in a ZESTRON specified process meet the following industry standards:</p> <ul style="list-style-type: none"> <li>IPC-A-610 Visual cleanliness</li> <li>J-STD 001 Ionic and resin cleanliness and foreign object debris</li> <li>IPC 5704 Cleanliness requirements for bare boards</li> <li>IPC-Hdbk-65B Guidelines for cleaning of printed boards and assemblies</li> </ul> <p>A cleaning process using VIGON® ME 100A can help to reduce particle contamination.</p>
 <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 &amp; SVHC lists</p>	

## Environmental, health & safety regulations

- VIGON® ME 100A is water-based and biodegradable.
- VIGON® ME 100A is 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 concentrate
- Store VIGON® ME 100A 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® ME 100A, 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® ME 100A a variety of process support products are available:



### Concentration measurement:

- ZESTRON® EYE for automated real-time concentration monitoring providing 100% traceability.
- ZESTRON® Bath Analyzer 20 a manual test method for fast and reliable checks on cleaner concentration.