

VIGON® A 250

Aqueous-based defluxing agent for electronic assemblies



VIGON® A 250, based on the MPC® Technology (Micro Phase Cleaning), is a water-based cleaning agent designed specifically for low and medium pressure spray-in-air processes with long exposure times. It is recommended for removing a wide range of flux residues from electronic assemblies. VIGON® A 250's mild formulation is particularly gentle on all solder joints and materials.

Areas of Application: PCB Defluxing

Recommended Applications:	Additional Product Information
Low Solid Flux Residues	Material Compatibility Overview
Rosin-Based Flux Residues	MPC® Technology Sheet
Water Soluble Flux Residues	Safety Data Sheet

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

Key Benefits

- Specifically developed for batch cleaning applications.
- Ability to remove a wide range of flux residues.
- Excellent material compatibility, even with long contact times.
- High bath loading capacity ensures an extended bath life, less maintenance, and reduced costs per cleaned part.
- Surfactant-free formulation prevents the formation of white residues on cleaned parts as well as cleaning equipment and eliminates time consuming surfactant monitoring.
- Mild formulation results in shiny solder joints and low ionic contamination values.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (low to medium pressure)	PCBs, BGAs, Flip Chips, Power LEDs, Hybrids	VIGON® A 250	DI-water	Hot air or circulating air
Centrifugal / Ultrasonic Cleaning	PCBs, BGAs, Flip Chips, Power LEDs, Hybrids	VIGON® A 250	DI-water	Hot air or circulating air

Please refer to the Material Compatibility Overview prior to cleaning plastics.

Technical Data: VIGON® A 250 at 15% Concentration

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	31.7
Boiling point	°C/°F	> 100 / > 212
Flash point	°C/°F	None
pH value	10g/l H ₂ O	9.9
Vapor pressure	(mbar) at 20°C/68°F	Approx. 20
Cleaning temperature	°C/°F	40 – 70 / 104 – 158
Solubility in water		Soluble
Application concentration ¹	Concentrate	15 – 20%
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

¹ VIGON® A 250 is recommended to be diluted in DI-water

Product Features & Cleaning Standards



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



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



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 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.



Process Optimization



To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For VIGON® A 250 the following process support product is available:



Concentration measurement:

- ZESTRON® EYE concentration monitoring systems accurately and automatically measure the cleaning agent concentration.
- ZESTRON® Bath Analyzer 10 is a manual test method for fast and reliable checks of cleaning agent concentration.

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