

VIGON® A 250

PCB cleaning medium with a mild formulation especially for sensitive metal alloys



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, VIGON® A 250 shows excellent material compatibility with sensitive metal alloys especially for longer exposure times.

VIGON® A 250 is developed for usage in spray equipment (e.g. "dish washer" systems) as well as high pressure spray-in-air equipment.

Areas of application: PCB's, Hybrids		Further information on this product:
Low solid flux residues*	++	Technical Information sheet 2: Overview of all fluxes and solder pastes tested Technical Information sheet 3: Overview regarding material compatibility 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*	++	
Solder pastes (unsoldered)	+	
SMT-adhesive or conductive adhesive	o	

++ highly recommended, best results + recommended o possible
 * Valid for all standard-, lead-free and eutectic solder paste

Free-of-Charge Cleaning Trials & Surface Analytics at ZESTRON's Technical Centers



Free-of-charge cleaning trials can be performed at one of ZESTRON's Global Technical Centers. ZESTRON's European, North American and Asian Technical Centers feature spray-in-air, ultrasonic or spray-under-immersion processes. This provides an extensive overview on all available processes by leading international equipment manufacturers.



Upon completion of the cleaning trials, extensive analytical tests such as SIR and ionic residue measurements can be performed.

Please consult with ZESTRON's Application Technology Centers regarding future cleaning trials: Phone +49-841-635-140; Email: techsupport@zestron.com

Advantages compared to surfactant cleaners:

- Due to its mild formulation VIGON® A 250 shows excellent material compatibility with sensitive metal alloys especially for longer exposure times.
- Surfactant-free formulation eliminates the formation of white residues on cleaned parts, cleaning equipment and eliminates time-consuming surfactant monitoring.
- Due to its excellent filterability VIGON® A 250 features an extended bath life and reduced cleaning agent costs.
- VIGON® A 250 has no flash point and does not require any explosion-proof precaution.
- Does not foam in spray applications and has a low odor.

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



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Process	Cleaning	Rinsing	Drying
Spray-in-air	VIGON® A 250	DI-water	Hot air or circulation air
Batch equipment (ultrasonic)	VIGON® A 250	DI-water	Hot air or circulation air

Technical Data

Please note that the information below represents VIGON® A 250 at a 20 % concentration.

Density	(g/ccm) at 20°C/68°C	1.00
Surface tension	(mN/m) at 25°C/77°F	29.5
Boiling range	°C/°F	100-212 / 212-414
Flash point	°C/°F	None up to boiling
pH-Value	10g/l H ₂ O	10.0
Vapor pressure	(mbar) bei 20°C/68°F	ca. 20
Solubility in water		soluble
Cleaning temperature	°C/°F	40 – 60 / 104 – 140
Application concentration ¹	%	15 – 30
HMIS Rating	Health, Flammability, Reactivity	1 – 0 – 0

¹ VIGON® A 250 is recommended to be diluted with DI-water only.

LEAD-FREE COMPLIANT



VIGON® A 250 meets the new RoHS & WEEE guidelines as well as current worker safety standards and the actual applicable environmental requirements. ZESTRON voluntarily avoids the use of critical substances at product development.



Extensive tests confirmed the qualification of VIGON® A 250 for the cleaning of lead-free solder pastes. For detailed results please request our Technical Information 2.

Filter recommendation

To take full advantage of the MPC® technology and further expand VIGON® A 250's bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

VIGON® A 250 is water-based and biodegradable. The cleaner does not contain any halogenated compounds and therefore is particularly environmentally friendly. No special precaution in the handling of VIGON® A 250 is required.

Availability/Storage

VIGON® A 250 is available as a concentrate solution in 1l bottles, 5l or 25l canisters and 200l drums. The product is a non-hazardous material.

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.

Cleaning standards:

Electronic assemblies cleaned in a ZESTRON specified process with VIGON® A 250 meet the following industry standards:

- IPC 610 Visual cleanliness
- J-STD 001 Ionic cleanliness
- IPC-TM 650 and DIN 32513 surface resistance
- J-STD 003 solderability