

VIGON® A 200

Water-based cleaning medium for flux removal



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

Areas of application: PCB's, ceramic hybrids, power modules, leadframes		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	0	

++ highly recommended, best results + recommended 0 possible - not recommended

* Valid for all standard-, lead-free and lead-based solders

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 +49-841-635-26; Email: techsupport@zestron.com

Advantages compared to other cleaners:

- VIGON® A 200 can easily be filtered and therefore provides an extended bath life and reduces cleaning agent costs.
- Due to its surfactant-free formulation VIGON® A 200 can be easily rinsed and does not leave any residues on the surface. VIGON® A 200 also provides low ionic contamination of cleaned parts.
- VIGON® A 200 has no flash point and thus can be applied in all spray-in-air equipment without explosion proof.
- VIGON® A 200 creates highest cleanliness levels for subsequent wire bonding and coating steps.
- Does not contain any halogenated compounds.
- Does not foam, even in high pressure applications.
- Low odor.

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

VIGON® A 200 is approved by leading international manufacturers of cleaning equipment. Written approvals can be obtained from ZESTRON.

Process	Cleaning	Rinsing	Drying
Spray-in-air (Inline und batch process)	VIGON® A 200	DI-water	Hot or circulated air

Technical Data		
Please note that the information below represents VIGON® A 200 at a 20 % concentration.		
Density	(g/ccm) at 20°C/68°F	0,99
Surface tension	(mN/m) at 25°C/77°F	31.2
Boiling range	°C/°F	100 - 212 / 212 - 414
Flash point	°C/°F	none
pH-Value	10g/l H ₂ O	10.9
Vapor pressure	(mbar) at 20°C/68°F	20
Cleaning temperature	°C/°F	40 – 60 / 104 – 140
Solubility in water		soluble
Application concentration ¹	Concentrate in %	15 - 30
HMS Rating	Health-Flammability-Reactivity	0 – 0 – 0

¹ VIGON® A 200 is recommended to be diluted with DI-water only.

LEAD-FREE COMPLIANT



VIGON® A 200 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 200 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 200 bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

VIGON® A 200 is water-based and biodegradable. The cleaner does not contain any halogenated compounds and is environmentally friendly. No special precaution for the handling of VIGON® A 200 is required.

Availability/Storage:

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

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.

Cleaning standards:

Electronic assemblies cleaned with VIGON® A 200 in a ZESTRON specified process meet the following industry standards:

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

Alternative product recommendation:

For water-based defluxing of electronic assemblies in ultrasonic dip tanks we recommend VIGON® US.