

VIGON A 300

Water based PCB cleaning agent for sensitive plastic materials



VIGON® A 300 is a water-based cleaning agent to remove flux residues from polymerized solder pastes. Due to its mild formula, VIGON® A 300 is especially compatible with sensitive polymers. VIGON® A 300 is a water-based cleaning medium specially designed to be used in spray-in-air and ultrasonic equipment.

Areas of application: PCB Cleaning		Further information on this product:
High polymerized flux residues*	++	Technical Information sheet 2: Overview of all fluxes and solder pastes tested
Synthetic flux residues*	++	Technical Information sheet 3: Overview regarding material compatibility
Rosin based flux residues*	++	Application Recommendation: Specific process parameters for your cleaning trials
Low solid flux residues*	++	MPC® Technology Information sheet: Additional information on MPC® Technology

++ highly recommended, best results + recommended o 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 +49-841-635-140; Email: techsupport@zestron.com

Advantages compared to other cleaners:

- VIGON® A 300 provides a high material compatibility even with some sensitive polymers (frame connector, inscriptions and labels).
- Due to its excellent filterability VIGON® A 300 features an extended bath life
- VIGON® A 300 has no flash point and thus can be applied in all spray-in-air equipment without explosion proof.
- Due to its surfactant-free formula VIGON® A 300 does not leave any residues on the surface.
- Does not foam, even in high pressure applications.

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

Process	Cleaning	Rinsing	Drying
Spray-in-air	VIGON® A 300	Warm with DI-water (40°C/104°F)	Hot or circulated air
Ultrasonic	VIGON® A 300	Warm with DI-water (40°C/104°F)	Hot or circulated air

Technical Data		
Please note that the information below represents VIGON® A 300 at a 33 % concentration.		
Density	(g/ccm) at 20°C/68°C	0.97
Surface tension	(mN/m) at 25°C/77°F	30.0
Boiling range	°C/°F	100 - 280 / 212 - 536
Flash point	°C/°F	none
pH-Value	10g/l H ₂ O	10.9
Vapor pressure	(mbar) at 20°C/68°F	16.0
Cleaning temperature	°C/°F	35 – 60 / 95 – 140
Application concentration ¹	Concentrate in %	33
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

¹ VIGON® A 300 has to be diluted in DI Water.

LEAD-FREE COMPLIANT



VIGON® A 300 meets the RoHS & WEEE guidelines, current worker safety standards as well as the actual applicable environmental requirements. ZESTRON voluntary avoids the use of critical substances during product development.



Extensive tests confirmed the qualification of VIGON® A 300 for the cleaning of lead-free solder pastes. For detailed results please request our Technical Information Sheet 2.

Filter recommendation:

To take full advantage of the MPC® Technology and further expand VIGON® A 300 bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

VIGON® A 300 is water-based and biodegradable. The cleaner does not contain any halogenated compounds and is environmentally friendly.

Availability/Storage:

VIGON® A 300 is available as concentrate in 1L bottles, 5L or 25L containers and 200L drums. This product is non-hazardous.

Store VIGON® A 300 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 300 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