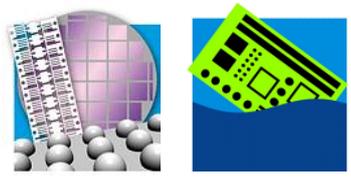


VIGON® PE 191A

Alkaline defluxing agent for PCBs and Power Electronics



VIGON® PE 191A, based on the MPC® Technology (Micro Phase Cleaning), is an aqueous-based, alkaline cleaning agent specifically developed for the use in spray-in-air equipment. VIGON® PE 191A removes flux residues from PCBs as well as power electronics including leadframes, discrete devices, power modules, and power LEDs. The cleaning agent provides exceptional results removing oxidation and stains from copper surfaces while ensuring material compatibility in preparation for subsequent processes such as wire/adhesive bonding and molding.

Areas of application: PCB and power electronics defluxing	
Recommended solder paste applications:	Additional product information:
No Clean (NC)	Material Compatibility Overview MPC® Technology Sheet: Overview of ZESTRON's patented Micro Phase Technology
Water Soluble (WS)	
Rosin Mildly Activated (RMA)	
Rosin (R)	
Rosin Activated (RA)	

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

Technical Centers - ① America, ② Europe, ③ Malaysia, ④ North-China, ⑤ South-China Cleaning Process Solutions under Production Floor Conditions



Advantages of VIGON® PE 191A compared to other cleaners:

- Excellent defluxing performance for PCBs and power electronics with low-standoff components
- Exceptional cleanliness results with heavily oxidized and stained Cu surfaces
- Retains activated copper surfaces over an extended period of time without risk of reoxidation
- Broad material compatibility with sensitive metals and dies
- No flash point, thus applicable in all non-explosion proof spray-in-air equipment

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



Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	VIGON® PE 191A	DI-water ¹	Hot air or circulating air
Spray under immersion (SUI)/ Ultrasonic (US) ²	VIGON® PE 191A	DI-water ¹	Hot air or circulating air

¹For cleaning Power Electronics, the DI-water temperature should be between 20-40°C/68-104°F.

Technical Data		
Please note that the following information represents VIGON® PE 191A at 15% concentration.		
Density	(g/ccm) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	29.6
Boiling point	°C/°F	> 98/> 208
Flash point	°C/°F	None
pH value	10g/l H ₂ O	10.2
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	10-25%
HMS rating	Health-Flammability-Reactivity	1-0-0

¹The concentrate of VIGON® PE 191A has to be diluted in DI-water.

PRODUCT FEATURES



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



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



100% compliance with EU guidelines (RoHS 1 & 2, WEEE)



Product is free of any critical substances according to SIN & SVHC lists

Environmental, health and safety regulations:

- Biodegradable and environmentally-friendly material.
- Compliant with the latest ODS regulations and does not contain HAPs.
- Formulated free of any halogenated compounds.
- Refer to the SDS for specific handling precautions and instructions.

Availability:

- VIGON® PE 191A is available as a concentrate in 1L bottles, 5L or 25L containers and 200L drums.

Storage:

- Store VIGON® PE 191A 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.