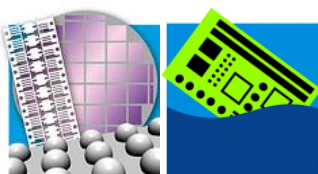


VIGON® PE 190A

Alkaline defluxing agent for Power Electronics and PCBs



VIGON® PE 190A is a water-based, alkaline cleaning agent specifically developed for the use in spray-in-air equipment. Based on the MPC®-Technology, VIGON® PE 190A reliably removes flux residues from leadframes, discrete devices, power modules, power LEDs and PCBs, specifically under low-standoff components. The cleaning agent exhibits excellent performance on strongly oxidized and stained copper surfaces; ensuring material compatibility in preparation for subsequent processes such as wire/adhesive bonding and moulding.

Areas of application: Defluxing of Power Electronics and PCBs			Additional product information:
Solder Paste	Rosin (RO)	++	Material Compatibility Overview
	Resin (RE / NoClean)	++	
	Water soluble (OR / IN)	++	

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

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



Advantages compared to other cleaners:

- Excellent defluxing performance for Power Electronics and PCBs with low-standoff components
- Provides stain-free, activated copper surfaces for subsequent wire bonding, moulding or adhesive bonding, extremely well on strongly oxidized and stained parts
- Retains activated copper surfaces over an extended period of time without risk of reoxidation
- Excellent material compatibility, specifically with dies, leaving the passivation intact
- Formulated for effective rinsing, no foaming
- No flash point, thus applicable in all spray-in-air equipment without explosion proof

Please refer to the Material Compatibility Overview before cleaning plastics.

Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	VIGON® PE 190A	DI-water ¹	Hot air or circulating air
Spray under immersion (SUI)/ Ultrasonic (US)	VIGON® PE 190A	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 190A 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°C / > 208°F
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°C / 104 - 158°F
Solubility in water		Soluble
Application concentration ¹ (inline)	Concentrate	10-20
Application concentration ¹ (batch)	Concentrate	15-25

¹The concentrate of VIGON® PE 190A 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

Filter recommendation

- To take full advantage of the MPC® Technology and further expand the bath life of VIGON® PE 190A, filtration is recommended.
- For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

- VIGON® PE 190A is water-based and biodegradable.
- VIGON® PE 190A is formulated free of any halogenated compounds and environmentally friendly.
- Refer to the MSDS for specific handling precautions and instructions.

Availability/Storage:

- VIGON® PE 190A is available as a concentrate in 1l bottles, 5l or 25l containers and 200l drums.
- Store VIGON® PE 190A 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.

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