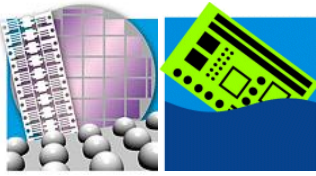


# VIGON® PE 180

## pH-neutral defluxing agent for Power Electronics and PCBs



VIGON® PE 180 is a water-based, pH-neutral cleaning agent developed for defluxing Power Electronics and PCBs in spray-in-air equipment. VIGON® PE 180 reliably removes flux residues and provides excellent material compatibility. It can be used for defluxing of leadframes, discrete devices, power modules, power LEDs as well as PCBs and features good deoxidation of copper surfaces to prepare for subsequent processes such as wire/adhesive bonding and molding.

Areas of application: Defluxing of Power Electronics and PCBs			Additional product information:
Solder Paste	Low solids	+	<b>Technical Information 3:</b> Material compatibility overview
	Water-soluble (OA)	++	
	No clean	++	
	High solids	++	
	Lead-based	+	

++ 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 on Power Electronics and PCBs
- provides stainless, activated copper surfaces for subsequent processes such as wire bonding, moulding and adhesive bonding.
- pH-neutral formulation, thus it provides excellent material compatibility
- Due to its MPC- formulation, VIGON® PE 180 can be effectively rinsed.
- VIGON® PE 180 has no flash point, does not foam and thus can be applied in all spray-in-air equipment without explosion proof.

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

Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	VIGON® PE 180	DI-water <sup>1</sup>	Hot air or circulating air
Spray under immersion (SUI)/ Ultrasonic (US)	VIGON® PE 180	DI-water <sup>1</sup>	Hot air or circulating air

<sup>1</sup>For 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 180 at 15 % concentration.		
Density	(g/ccm) at 20°C/68°F	0,99
Surface tension	(mN/m) at 25°C/77°F	29,2
Boiling point	°C/°F	>98°C / > 208°F
Flash point	°C/°F	None
pH-value	10g/l H <sub>2</sub> O	Neutral
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 <sup>1</sup> (inline)	Concentrate	10-20 %
Application concentration <sup>1</sup> (batch)	Concentrate	15-25 %
HMIS Rating	Health-Flammability-Reactivity	1 - 0 - 0

<sup>1</sup>The concentrate of VIGON® PE 180 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 180, filtration is recommended.
- For details, please request our "Filter Recommendation" sheet.

## Environmental, health and safety regulations:

- VIGON® PE 180 is water-based and biodegradable.
- VIGON® PE 180 is formulated free of any halogenated compounds and environmentally friendly.
- Refer to the MSDS for specific handling precautions and instructions.

## Availability/Storage:

- VIGON® PE 180 is available as a concentrate in 1l bottles, 5l or 25l containers and 200l drums.
- Store VIGON® PE 180 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.