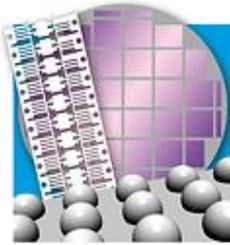


# VIGON® PE 200

**pH-neutral defluxing agent for power modules & LEDs, leadframes and discrete devices**



VIGON® PE 200 is a water-based, pH-neutral cleaning agent specifically developed for the use in spray-in-air equipment. Based on the MPC®-Technology, VIGON® PE 200 reliably removes flux residues from leadframes, discrete devices, power modules and power LEDs, i.e. after die attach or heatsink soldering. The cleaning agent shows an excellent ability to remove oxide layers from copper surfaces to prepare for subsequent processes such as wire/adhesive bonding and molding.

Areas of application: defluxing of power electronics (leadframes, discrete devices, power modules & -LEDs)			Additional product information:
Solder Paste	Low solids	+	<b>Technical Information 3:</b> Material compatibility overview  <b>MPC® Technology Information Sheet:</b> Additional information on MPC® Technology
	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:

- VIGON® PE 200 provides stainless, activated copper surfaces for subsequent processes such as wire bonding, moulding and adhesive bonding.
- VIGON® PE 200 retains activated surfaces over a temporary storage time.
- The cleaning agent is pH-neutral, therefore provides excellent material compatibility, specifically with dies, no attack of the passivation.
- Due to its MPC- formulation, VIGON® PE 200 can be effectively rinsed.
- VIGON® PE 200 has no flash point, does not foam and thus can be applied in all spray-in-air equipment without explosion proof.
- Formulated free of halogenated compounds and has a low odor.

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 200	DI-water <sup>1</sup>	Hot air or circulating air
Spray under immersion (SUI)/ Ultrasonic (US) <sup>2</sup>	VIGON® PE 200	DI-water <sup>1</sup>	Hot air or circulating air

<sup>1</sup>The DI-water temperature should be between 20-40°C/68-104°F.

<sup>2</sup>To be tested depending on the parts and the cleaning equipment.

Technical Data		
Please note that the following information represents VIGON® PE 200 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>	Concentrate	10-20 %
HMIS Rating	Health-Flammability-Reactivity	1 - 0 - 0

<sup>1</sup>The concentrate of VIGON® PE 200 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 200, filtration is recommended.
- For details, please request our "Filter Recommendation" sheet.

## Environmental, health and safety regulations:

- VIGON® PE 200 is water-based and biodegradable.
- VIGON® PE 200 is formulated free of any halogenated compounds and environmentally friendly.
- Refer to the MSDS for specific handling precautions and instructions.

## Availability/Storage:

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