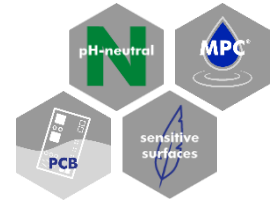


VIGON® N 600

Water-based, pH neutral defluxing agent for spray-in-air cleaning processes



VIGON® N 600 is a MPC® Technology based, innovative defluxing product with a revolutionary pH neutral formulation. The cleaning agent was developed for use in spray-in-air inline and batch cleaning applications. Its excellent cleaning performance and ability to remove a wide range of flux residues from electronic assemblies under pH neutral conditions is unprecedented. Due to its neutral pH value, the cleaning agent also demonstrates a high level of material compatibility with sensitive metals and polymers.

Areas of Application: PCB Defluxing

Recommended Solder Paste Applications:	Additional Product Information
No Clean (NC)	Material Compatibility Overview
Water Soluble (WS)	
Rosin (R)	MPC® Technology Sheet
Rosin Mildly Activated (RMA)	
Rosin Activated (RA)	Safety Data Sheet
Solder Paste (Unsoldered)	

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

Key Benefits

- Due to its neutral pH value, VIGON® N 600 demonstrates an unprecedented level of material compatibility with sensitive materials such as aluminum, brass, nickel, copper, plastics, labels, and inks.
- Performs well at low application concentrations in specific processes.
- No need for waste-water neutralization.
- Good results underneath low-standoff components.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	PCBs (Power Modules, Power LEDs, Flip Chips)	VIGON® N 600	DI-water	Hot air or circulating air

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

Technical Data: VIGON® N 600 at 15% Concentration

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	27.1
Boiling point	°C/°F	98 – 229 / 208 – 444
Flash point	°C/°F	None until boiling
pH value	10g/l H ₂ O	Neutral
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 (inline)	Concentrate	7.5 – 15%
Application concentration ¹ (batch)	Concentrate	7.5 – 20%
HMIS Rating	Health-Flammability-Reactivity	0 – 0 – 0

¹ VIGON® N 600 is recommended to be diluted in DI-water

Product Features & Cleaning Standards



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



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



100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)



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

Environmental, Health & Safety Regulations

- Water-based and biodegradable.
- Formulated free of any halogenated compounds.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

1 Liter	✓
5 Liter	✓
25 Liter	✓
200 Liter	✓

- Available as concentrate.
- Store VIGON® N 600 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.



Process Optimization



To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For VIGON® N 600 the following process support product is available:



Concentration measurement:

- ZESTRON® EYE concentration monitoring systems accurately and automatically measure the cleaning agent concentration.
- ZESTRON® Bath Analyzer 20 is a manual test method for fast and reliable checks of cleaning agent concentration.

Contact ZESTRON's Application Engineering Team for more information or trials:
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