

VIGON® NX 728

Aqueous-based, pH neutral defluxing agent for low-standoff applications



VIGON® NX 728, based on the MPC® Technology (Micro Phase Cleaning), is an aqueous-based, pH neutral cleaning agent specifically developed for use in spray-in-air inline and batch equipment. With a wide process window, it offers superior defluxing performance, effectively removes a broad range of electronic assembly flux residues, has an exceptional ability to penetrate and clean under low standoff components and is easily rinsed. Additionally, the cleaning agent provides exceptional material compatibility with sensitive metals.

Areas of Application: PCB Defluxing

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

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

Key Benefits

- Exceptional cleaning performance, specifically targeting low standoff component cleanliness.
- Superior rinsability.
- Excellent material compatibility with sensitive materials.
- Performs well at low application concentrations in specific processes.
- Eco-friendly formulation eliminates the need for waste water neutralization.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCBs	VIGON® NX 728	DI-water	Hot air or circulating air

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

Technical Data: VIGON® NX 728 at 10% Concentration

Density	(g/cm ³) at 20°C/68°F	0.95
Surface tension	(mN/m) at 25°C/77°F	30.0
Boiling point	°C/°F	> 100°C
Flash point	°C/°F	> 212°F
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	7.5-20%
Application concentration ¹ (batch)	Concentrate	7.5-20%
HMIS Rating (10% concentration)	Health-Flammability-Reactivity	0 – 0 - 0

¹ VIGON® NX 728 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

- 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 & Storage

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

- Available as concentrate.
- Store VIGON® NX 728 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® NX 728 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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