

VIGON® NX 700

Aqueous-based, pH neutral defluxing agent designed for PCB assemblies with low-standoff components



VIGON® NX 700, based on MPC® (Micro Phase Cleaning) Technology, is designed to be used in inline and batch cleaning systems. VIGON® NX 700 is a pH neutral cleaning agent offering superior defluxing performance on PCB assemblies especially under low profile components. The cleaning agent removes a wide range of electronic assembly flux residues and offers excellent material compatibility on a variety of sensitive materials. VIGON® NX 700 qualifies as a Low VOC product with applied VOC concentrations below 25 g/L.

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

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

Key Benefits

- VIGON® NX 700 offers excellent material compatibility with sensitive materials including copper, brass, and aluminum due to its pH neutral formulation.
- Exceptional cleaning performance, especially under low profile components.
- Performs well at low application concentrations for specific processes.
- Eco-friendly formulation eliminates the need for waste water neutralization.
- Easily rinsed yielding a wide process window and reduced equipment maintenance.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCB	VIGON® NX 700	DI-water	Hot air or circulating air

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

Technical Data: VIGON® NX 700 at 10% Concentration

Density	(g/cm ³) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	29.5
Boiling point	°C/°F	> 98 / > 208
Flash point	°C/°F	None
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
VOC Concentration @ 10% Dilution	g/L	10.5
Application concentration ¹ (inline)	Concentrate	7.5 – 15%
Application concentration ¹ (batch)	Concentrate	10 – 20%
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

¹ VIGON® NX 700 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.
- Compliant with the latest ODS regulations and does not contain HAPs.
- 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 700 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 700 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:
Phone: +1 (703) 393-9880 Email: infousa@zestron.com

