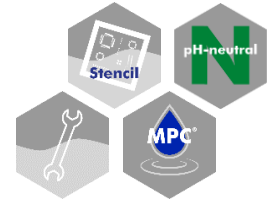


VIGON® SC 210

Water-based stencil cleaner for the removal of solder pastes and SMT adhesives



VIGON® SC 210, based on the MPC® Technology, is a water-based cleaning agent specifically developed to clean residues from SMT stencils, squeegees and misprints. The cleaning agent reliably removes solder pastes and SMT adhesives in a single process and provides excellent cleaning results, even at low temperatures. VIGON® SC 210 is designed to be used in spray-in-air and ultrasonic cleaning systems. VIGON® SC 210 can also be used to remove adhesives from tools (particularly dispensing needles).

Areas of Application: Stencils, Misprints, and Tools

Recommended Stencil/Misprint Applications:	Additional Product Information
Solder paste (unsoldered)	Material Compatibility Overview
SMT and conductive adhesives	
Water soluble flux residues	MPC® Technology Sheet
Recommended Tools Applications:	Safety Data Sheet
SMT and conductive adhesives	

Key Benefits

- VIGON® SC 210 provides excellent cleaning results at temperatures between 18-40°C/64-104°F.
- Being pH neutral, VIGON® SC 210 offers excellent compatibility with Nanocoating materials.
- High bath loading capacity results in a long bath life when compared to surfactant-based cleaning agents
- The cleaning agent is water-based, surfactant-free and does not leave residue on stencils or inside cleaning equipment.
- The cleaning agent has no flash point and thus can be used in equipment without explosion-proof protection.
- VOC value significantly below 20%, fully complies with local environmental regulations.
- Non-foaming, low-odor, no build-up of organics in the rinsing section.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	Stencils, Squeegees & Misprints (single sided)	VIGON® SC 210	VIGON® SC 210 or DI-water*	Compressed air or Hot recirculating air
Ultrasonic	Stencils, Squeegees & Misprints (single sided)	VIGON® SC 210	VIGON® SC 210 or DI-water*	Compressed air or Hot recirculating air
Ultrasonic	Dispensing Needles	VIGON® SC 210 (100%)	VIGON® SC 210 or DI-water	Compressed air or Hot recirculating air

*Depending on the mineral content of the water, rinsing with regular water might be sufficient for stencil cleaning. However, hard water may cause scale build-up. For misprint cleaning, rinsing with DI-water is highly recommended.

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

Technical Data: VIGON® SC 210 as a ready-to-use solution

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	28.5
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	18 – 40 / 64 – 104
Solubility in water		Soluble
Application concentration – stencils & misprints ¹	Concentrate	15%
Application concentration – stencils & misprints	Ready-to-use	Pure
Application concentration – tools	Concentrate	100%
HMIS Rating	Health-Flammability-Reactivity	0 – 0 – 0

¹ VIGON® SC 210 is recommended to be diluted with DI-water only.

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.
- Water rinsing is not necessary. This results in the elimination of water streams and water treatment processes.
- 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	✓

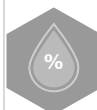
- Available as concentrate and ready-to-use solution.
- Store VIGON® SC 210 in the original container at a temperature between 5 - 30°C / 41 - 86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.



Process Optimization



To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For VIGON® SC 210 the following process support product is available:



Concentration measurement:

- ZESTRON® EYE for automated real-time monitoring providing 100% traceability.
- 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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