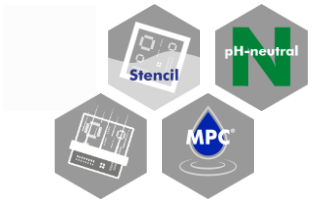
VIGON® SC 200

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



VIGON® SC 200, based on MPC® (Micro Phase Cleaning) Technology, is a water-based cleaning agent designed to clean SMT stencils at room temperature. The cleaning agent reliably removes solder pastes and SMT adhesives in one single process and can also be used for stencil underside wipe process in SMT printers. It is designed for use in spray-in-air and ultrasonic cleaning systems and is also recommended for cleaning of misprinted solder paste. Depending on the type of flux, VIGON® SC 200 can also be used for cleaning misprints on double-sided PCBAs with one side already soldered.

Areas of Application: Stencil and misprint cleaning

Recommended Solder Paste Applications:	Additional Product Information
Solder paste (unsoldered)	Material Compatibility Overview
SMT or conductive adhesives	MPC® Technology Sheet
Water soluble flux residues	Safety Data Sheet

Applies to leaded and lead-free solder pastes

Key Benefits

- Consistently good cleaning results at temperatures between 18 – 50°C / 64 – 122°F.
- Due to its pH neutral formulation, rinsing the stencils with DI-water is not mandatory.
- High bath loading capability with very good filterability provides long bath life and reduced maintenance costs.
- Offers excellent compatibility with Stencils and Nanocoating materials
- Water-based cleaner without flash point, no explosion-proof protection required.
- Non-foaming when used in spray-in-air and ultrasonic systems.
- Low odor and non-hazardous formulation.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	Stencil and misprints	VIGON® SC 200	VIGON® SC 200 or DI-water[1]	Hot air or circulating air
Ultrasonic	Stencil and misprints	VIGON® SC 200	VIGON® SC 200 or DI-water[1]	Hot air or circulating air
Printer	Printer	VIGON® SC 200	Not applicable	Vacuum drying

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

Technical Information

Technical Data: VIGON® SC 200 as a ready-to-use mixture

Density	(g/cm³) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	29.7
Boiling point	°C/°F	95 – 212 / 203 – 414
Flash point	°C/°F	None until boiling
pH value	10g/l H_2O	Neutral
Vapor pressure	(mbar) at 20°C/68°F	18.1
Cleaning temperature	°C/°F	20 – 50 / 68 – 122
Solubility in water		Soluble
Application concentration	Ready-to-use	Pure
Application concentration[1]	Concentrate	25%
HMIS Rating	Health-Flammability-Reactivity	0 – 0 – 0

[1] VIGON® SC 200 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, biodegradable and formulated free of any halogenated compounds
- Water rinsing is not necessary. This results in the elimination of waste water streams and water treatment processes.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

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

- Available as concentrate or as a ready-to-use solution.
- Store VIGON® SC 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.

Process Optimization

To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For VIGON® SC 200 the following process support product is available:

Concentration measurement:

- ZESTRON® EYE / ZESTRON EYE® Mobile for automated real-time concentration 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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