

VIGON® SC 200

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



VIGON® SC 200 is a water-based cleaning agent designed to clean SMT stencils at room temperature. Based on the MPC® Technology, the cleaning agent reliably removes solder pastes and SMT adhesives in one single process and can also be used for stencil underside wiping in printers. It is designed for the use in spray-in-air and ultrasonic cleaning systems and is also recommended for cleaning misprinted solder paste. Depending on the type of fluxes, VIGON® SC 200 can also be suggested for both double-sided and single-sided soldered circuit boards applications

Areas of application: Stencil and misprinted board cleaning		Additional product information :
Solder paste (unsoldered)	++	Technical Information 2: Overview of all fluxes and solder pastes tested Technical Information 3: Material compatibility overview Technical Information 4: Additional information on stencil underside cleaning in printers Application Recommendation: Specific process parameters for your cleaning trial MPC® Technology Information Sheet: Additional information on MPC® Technology
SMT or conductive adhesives	++	
Lead-free fluxes	0	
No-Clean fluxes	0	
Water soluble flux residues	+	

++ highly recommended, best results + recommended 0 possible - not recommended

Technical Centers - ① America, ② Europe, ③ Malaysia, ④ North-China, ⑤ South-China Cleaning Process Solutions under Production Floor Conditions



Contact ZESTRON's Process Engineering Team for free-of-charge cleaning trials:
Phone: +49-841-635-26; Email: techsupport@zestron.com

Advantages compared to other cleaners:

- High bath loading capability, very good filterability and therefore a long bath life as well as low maintenance costs.
- Recommended for ambient cleaning temperatures.
- Water-based cleaner without flash point, no explosion-proof protection required.
- Due to its mild formula, the medium shows excellent material compatibility with stencils.
- Applicable in spray-in-air systems, ultrasonic dip tanks and printers.
- Applicable in closed-loop systems.
- No foaming when used in spray-in-air systems.
- Low odor, no building of organics in the rinsing section.

Please refer to the material compatibility list (Technical Information 3) before cleaning plastics.

VIGON® SC 200 is approved by leading international manufacturers of cleaning equipment. Written approvals can be obtained from ZESTRON.

Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	VIGON® SC 200	VIGON® SC 200 water or DI-water	Hot air or circulating air
Ultrasonic	VIGON® SC 200	VIGON® SC 200 water or DI-water	Hot air or circulating air
Printer	VIGON® SC 200	Not applicable	Vacuum drying

* Depending on the water hardness, rinsing with regular water might be sufficient for stencil cleaning. In the case of high water hardness, lime marks may stay behind. For misprint cleaning, rinsing with DI-water is highly recommended.

Technical Data		
VIGON® SC 200 is available as concentrate or ready-to-use solution. Please note that the information below represents VIGON® SC 200 as a ready-to-use mixture.		
Density	(g/ccm) at 20°C/68°C	0.99
Surface tension	(mN/m) at 25°C/77°F	29.7
Boiling range	°C/°F	95 – 212 / 203 – 414
Flash point	°C/°F	None
pH-value	10g/l H ₂ O	Neutral
Vapor pressure	(mbar) bei 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 with DI-water only.

PRODUCT FEATURES	
 Extensively tested and suitable for cleaning of lead-free solder pastes	 MPC® Technology ensures an extremely long bath life when used in a closed loop system
 100% compliance with EU guidelines (RoHS 1 & 2, WEEE)	 Product is free of any critical substances according to SIN & SVHC lists

Filter recommendation:

- To take full advantage of the MPC® Technology and further extend the bath life of VIGON® SC 200, filtration is recommended.
- For details, please request our “Filter Recommendation” sheet.

Environmental, health and safety regulations:

- VIGON® SC 200 is formulated free of any halogenated compounds and is completely biodegradable.
- Rinsing with water is not necessary.
- This results in the elimination of water streams and water treatment processes.
- No special precaution for the handling of VIGON® SC 200 is required.

Availability/Storage:

- VIGON® SC 200 is available as ready-to-use-solution or as concentrate in 1l bottles and 5l or 25l containers.
- VIGON® SC 200 is a non-hazardous material and according to EU standards does not require specific labelling.
- 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.

Alternative product recommendation:

- For the cleaning of single-sided soldered and misprinted circuit boards we recommend VIGON® SC 202.