

VIGON® SC 202

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



VIGON® SC 202 (SC = Stencil Cleaner) is a water-based cleaning agent designed for the reliable removal of solder pastes and SMT adhesives from stencils. Based on its MPC® Technology, this medium has also been developed to clean double-sided misprints, with one side already soldered. The cleaning agent is recommended to be used in spray-in-air and ultrasonic cleaning systems.

Areas of application: Stencil and misprinted board cleaning		Further information on this product:
Solder paste (unsoldered)	++	Technical Information sheet 2: Overview of all fluxes and solder pastes tested Technical Information sheet 3: Overview regarding material compatibility Application Recommendation: Specific process parameters for your cleaning trial MPC® Technology Information sheet: Additional information on MPC® Technology
SMT or conductive adhesives	++	
Low solid flux residues*	+	
Rosin-based flux residues*	+	
Water soluble flux residues*	++	

++ highly recommended, best results

+ recommended

o possible

Free-of-Charge Cleaning Trials & Surface Analytics at ZESTRON's Technical Centers



Free-of-charge cleaning trials can be performed at one of ZESTRON's Global Technical Centers. ZESTRON's European, North American and Asian Technical Centers feature spray-in-air, ultrasonic or spray-under-immersion processes. This provides an extensive overview on all available processes by leading international equipment manufacturers.



Upon completion of the cleaning trials, extensive analytical tests such as SIR and ionic residue measurements can be performed.

Please consult with ZESTRON's Application Technology Centers regarding future cleaning trials: Phone +49-841-635-26; Email: techsupport@zestron.com

Advantages compared to other cleaners:

- VIGON® SC 202 has been especially developed for the removal of fluxes from double-sided misprinted boards with already one side soldered.
- VIGON® SC 202 has a high bath loading capability, very good filterability and therefore a long bath life as well as reduced cleaning costs.
- This water-based cleaner is surfactant-free and can easily be rinsed residue-free.
- VIGON® SC 202 has no flash point and can be used without explosion-proof protection.
- The cleaner is applicable in spray-in-air systems and ultrasonic dip tanks.
- No foaming when used in spray-in-air systems.
- Low odor.

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

VIGON® SC 202 is approved by leading international manufacturers of cleaning equipment. Written approvals can be obtained from ZESTRON.

Process	Cleaning	Rinsing	Drying
Spray in air	VIGON® SC 202	Water or DI-water	Hot, compressed or circulating air
Ultrasonic	VIGON® SC 202	Water or DI-water	Hot, compressed or circulating air

* Depending on the hardness of the water, 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 202 is available as concentrate and ready-to-use solution. Please note that the information below represents the ready-to-use mixture. The recommended application temperature is 25 °C / 77° F (room temperature). However, the cleaner can be used between 25-50 °C / 77-122° F for the cleaning of stencils and misprints in a single process.		
Density	(g/ccm) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	28.7
Boiling range	°C/°F	95 – 212 / 203 - 414
Flash point	°C/°F	none
pH-Value	10g/l H ₂ O	9
Vapor pressure	(mbar) at 20°C/68°F	18.1
Cleaning temperature	°C/°F	25 – 50 / 77 - 122
Solubility in water		soluble
Application concentration	Ready to use	pure
Application concentration ¹	Concentrate	25 %
HMS Rating	Health-Flammability-Reactivity	0 – 0 – 0

¹ VIGON® SC 202 is recommended to be diluted with DI-water only.

LEAD-FREE COMPLIANT



VIGON® SC 202 meets the new RoHS & WEEE guidelines as well as current worker safety standards and the actual applicable environmental requirements. ZESTRON voluntary avoids the use of critical substances at product development.



Extensive tests confirmed the qualification of VIGON® SC 202 for the cleaning of lead-free solder pastes. For detailed results of this tests please request our Technical Information 2.

Filter recommendation

To take full advantage of the MPC® Technology and further expand VIGON® SC 202 bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

VIGON® SC 202 is water-based and biodegradable. The cleaner does not contain any halogenated compounds and is environmentally friendly. No special precaution for the handling of VIGON® SC 202 is required.

Availability/Storage:

VIGON® SC 202 is available as a ready-to-use-solution or as a concentrate (mixing ratio 25%) in 1L bottles, 5L or 25L canisters. VIGON® SC 202 is a non-hazardous material and according to EU standard it does not require specific labeling.

Store VIGON® SC 202 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 proper removal of persistent flux residues we recommend the MPC® based cleaning medium VIGON® A 200. For the cleaning of stencils in automated cleaners and printers we recommend the well proven VIGON® SC 200, which is also based on the MPC® Technology.