

# VIGON® SC 200

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



VIGON® SC 200 (SC = Stencil Cleaner) is a water-based cleaning agent designed to clean SMT stencils at room temperature. Based on its 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 use in spray-in-air and ultrasonic cleaning systems and is also recommended for the cleaning of misprinted solder paste. Depending on the type of fluxes, for both double-sided and single-side soldered circuit boards applications VIGON® SC 200 can also be suggested.

| Areas of application:<br>Stencil and misprinted board cleaning |    | Further information on this product:   |
|--|----|--|
| Solder paste (unsoldered)                                      | ++ | <b>Technical Information sheet 2:</b><br>Overview of all fluxes and solder pastes tested<br><b>Technical Information sheet 3:</b><br>Overview regarding material compatibility<br><b>Technical Information sheet 4:</b> Additional information on stencil underside cleaning in printer<br><b>Application Recommendation:</b><br>Specific process parameters for your cleaning trial<br><b>MPC® Technology Information sheet:</b><br>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

### 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 +49-841-635-140; 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.
- VIGON® SC 200 is the only aqueous, surfactant-free cleaner, which leaves no residues on substrates and the inside of the equipment.
- Recommended for ambient cleaning temperature.
- Water-based cleaner without flash point and without explosion-proof protection.
- 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 equipments. Written approvals can be obtained from ZESTRON.

| Process      | Cleaning      | Rinsing                         | 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 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 200 is available as concentrate or ready-to-use solution<br>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 <sub>2</sub> O         | neutral              |
| Vapor pressure   | (mbar) bei 20°C/68°F           | 18.1                 |
| Cleaning temperature   | °C/°F                          | 20 – 30 / 68 - 86    |
| Solubility in water  |                                | soluble              |
| Application concentration  | Ready to use                   | pure                 |
| Application concentration <sup>1</sup>   | Concentrate                    | 25 %                 |
| HMS Rating   | Health-Flammability-Reactivity | 0 – 0 – 0            |

<sup>1</sup>The concentrate of VIGON® SC 200 has to be diluted in DI Water.

## LEAD-FREE COMPLIANT



VIGON® SC 200 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 200 for the cleaning of lead-free solder pastes. For detailed results please request our Technical Information 2.

## Filter recommendation:

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

## Environmental, health and safety regulations:

VIGON® SC 200 does not contain any halogenated compounds and is completely biodegradable. Water rinsing 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 (mixing ratio 25%) in 1L bottles and 5L or 25L canisters. VIGON® SC 200 is a non-hazardous material and according to EU standard it 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-side soldered and misprinted circuit boards we recommend VIGON® SC 202.