

# VIGON® SC

## Water-based cleaning agent for the removal of solder pastes and SMT adhesives from stencils



VIGON® SC is a water-based cleaning medium designed for cleaning of SMT stencils in spray-in-air equipment. Based on the MPC® Technology, VIGON® SC reliably removes solder pastes and SMT adhesives in a single process. Furthermore VIGON® SC can be used for the cleaning of misprinted PCB's. Depending on the flux type, this also applies to double-sided, populated circuit boards.

| 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, SMT adhesives and solder pastes tested |
| SMT or conductive adhesives                                    | +  |   |
| Resin-based flux residues                                      | +  | <b>Technical Information sheet 3:</b><br>Overview regarding material compatibility                      |
| Low solid flux residues  | o  |   |
| Water soluble flux residues                                    | +  | <b>MPC® Technology Information sheet:</b><br>Additional information on MPC® Technology                  |

++ highly recommended, best results

+ recommended

o 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 dries twice as fast as water, therefore the process time can be significantly reduced.
- Surfactant-free formulation does not leave any residues on the surface or in the cleaning equipment.
- VIGON® SC has no flash point and can be used without explosion-proofed equipment.
- VIGON® SC offers a wide process window.
- Low odor, pH-neutral.

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

VIGON® SC is approved by leading international manufacturers of cleaning equipments and stencils. Written approvals can be obtained from ZESTRON.

| Process      | Cleaning  | Rinsing                         | Drying                                |
|--------------|-----------|---------------------------------|---------------------------------------|
| Spray-in-air | VIGON® SC | VIGON® SC,<br>water or DI-water | Hot, circulating or<br>compressed air |
| Ultrasonic   | VIGON® SC | VIGON® SC,<br>water or DI-water | Hot, circulating or<br>compressed air |

\* Depending on the water hardness, rinsing with regular water may 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            |                                |                     |
|---------------------------|--------------------------------|---------------------|
| Density                   | (g/ccm) at 20°C/68°F           | 0.99                |
| Surface tension           | (mN/m) at 25°C/77°F            | 35.2                |
| Boiling range             | °C/°F                          | 98 / 208            |
| Flash point               | °C/°F                          | None                |
| pH-Value                  | 10g/l H <sub>2</sub> O         | Neutral             |
| Vapor pressure            | (mbar) at 20°C/68°F            | 31.38               |
| Solubility in water       |                                | Soluble             |
| Cleaning temperature      | °C/°F                          | 40 – 50 / 104 – 122 |
| Application concentration | Ready to use                   | Pure                |
| HMIS Rating               | Health-Flammability-Reactivity | 0 – 0 – 0           |

## LEAD-FREE COMPLIANT



VIGON® SC 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 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 bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

## Environmental, health and safety regulations:

VIGON® SC does not contain halogenated compounds and is biodegradable. Water rinsing is not necessary. No special precaution in the handling of the VIGON® SC has to be taken.

## Availability/Storage:

VIGON® SC is available as ready-to-use solution in 1L bottles, 5L or 25L canisters or 200L drums. VIGON® SC is a non-hazardous material. According to EU standards no special labeling is necessary.

Store VIGON® SC in the original container at a temperature between 5°C-30°C / 41-86°F. The product has a minimum shelf life of 5 years in factory sealed containers.

## Alternative product recommendation:

For applications at room temperature we recommend VIGON® SC 200. For the cleaning of water-sensitive screens, ZESTRON® SD 301 is recommended.

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