

# VIGON® SC 210

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



VIGON® SC 210, based on the MPC® Technology, is a water-based cleaning agent specifically developed to clean SMT stencils. The cleaning agent reliably removes solder pastes and SMT adhesives in a single process and provides excellent cleaning results, even at low temperatures. VIGON® SC 210 is designed to be used in spray-in-air and ultrasonic cleaning systems.

| Areas of application:<br>Stencil / Misprinted Board Cleaning |    | Additional product information:   |
|--|----|---|
| Solder paste (unsoldered)                                    | ++ | <b>Technical Information 3:</b><br>Overview of materials evaluated for compatibility<br><br><b>MPC® Technology Sheet:</b><br>Overview of ZESTRON's patented Micro Phase Cleaning Technology |
| SMT or conductive adhesives                                  | ++ |   |
| Lead-free fluxes   | 0  |   |
| No-Clean fluxes  | 0  |   |
| Water soluble flux residues                                  | +  |   |

++ highly recommended, best results

+ recommended

0 possible

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



Contact ZESTRON's Process Engineering Team for free-of-charge cleaning trials:  
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### Advantages compared to other surfactant cleaners:

- Consistently good cleaning results at temperatures between 18-40°C/64-104°F.
- High bath loading capability providing extended bath life and reduced cleaning agent costs.
- Water-based, surfactant-free cleaner; leaves no residues on substrates or inside the equipment.
- Excellent material compatibility.
- No flash point and thus, can be used without explosion-proof protection.
- Non-foaming when used in spray-in-air and ultrasonic systems.
- Low odor.
- Halogen free.





Please refer to the material compatibility datasheet (Technical Information 3) prior to cleaning plastics.

| Process      | 1. Cleaning   | 2. Rinsing                    | 3. Drying                          |
|--------------|---------------|-------------------------------|------------------------------------|
| Spray-in-air | VIGON® SC 210 | VIGON® SC 210<br>or DI-water* | Hot, compressed or circulating air |
| Ultrasonic   | VIGON® SC 210 | VIGON® SC 210<br>or DI-water* | Hot, compressed or circulating air |

\*Depending on the mineral content of the water, rinsing with regular water might be sufficient for stencil cleaning. However, hard water may cause scale built-up. For misprint cleaning, rinsing with DI-water is highly recommended.

| Technical Data:  |                                |                      |
|--|--------------------------------|----------------------|
| VIGON® SC 210 is available as concentrate or ready-to-use solution.<br>Note that the information below represents VIGON® SC 210 as a ready-to-use mixture. |                                |                      |
| Density  | g/ccm at 20°C/68°F             | 1.0                  |
| Surface tension  | mN/m at 25°C/77°F              | 28.5                 |
| Boiling range  | °C/°F                          | 98 – 229 / 208 – 444 |
| Flash point  | °C                             | None                 |
| pH-value   | 10g/l H <sub>2</sub> O         | Neutral              |
| Vapor pressure   | (mbar) at 20°C/68°F            | Approx. 20           |
| Solubility in water  |                                | Soluble              |
| Cleaning temperature   | °C/°F                          | 18 – 40 / 64 – 104   |
| Application concentration  | Ready-to-use                   | Pure                 |
| Application concentration <sup>1</sup>   | Concentrate                    | 15%                  |
| HMS rating   | Health-Flammability-Reactivity | 0-0-0                |

<sup>1</sup>VIGON® SC 210 is recommended to be diluted with DI-water only.

| Product Features  |  |
|---|--|
|  | Extensively tested and suitable for cleaning of LF solder pastes               |
|  | MPC® Technology ensures an extremely long bath life when processed closed loop |
|  | 100% compliance with EU guidelines   |
|  | Product is free of any critical substances according to SIN & SVHC lists       |

### Environmental, health and safety regulations:

- VIGON® SC 210 is water-based and fully biodegradable.
- Water rinsing is not necessary. This results in the elimination of waste-water streams and water treatment processes.
- VIGON® SC 210 is free of any halogenated compounds.
- Refer to the SDS for specific handling precautions and instructions.

### Availability:

- VIGON® SC 210 is available as concentrate in 5L and 25L containers or 200L drums and ready-to-use in 1L, 5L, and 25L containers.
- VIGON® SC 210 is a non-hazardous material.

### Storage:

- Store VIGON® SC 210 in the original container at temperatures between 5-30°C/41-86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.

### Filter recommendation:

- To take full advantage of the MPC® Technology and further extend the bath life of VIGON® SC 210, filtration is recommended. For details, please request the ZESTRON "Filter Recommendation" sheet.