

VIGON SC 210

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



VIGON® SC 210 is a water-based cleaning agent specifically developed to clean SMT stencils. Based on the MPC® Technology, the cleaning agent reliably removes solder pastes and SMT adhesives in a single process and provides optimum cleaning results even at low temperatures starting from 18°C/64°F. VIGON® SC 210 is designed to be used in spray-in-air and ultrasonic cleaning systems.

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 Application Recommendation: Specific process parameters for your cleaning trial MPC® Technology Information Sheet: Additional information on MPC® Technology
SMT or conductive adhesives	++	
No-Clean fluxes*	0	
Water soluble flux residues	+	

++ highly recommended, best results + recommended 0 possible - not recommended
 * Valid for all standard, lead-free and lead-based solders

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:

- Shows constantly good cleaning results at temperatures between 18-40°C/64-104°F.
- VIGON® SC 210 is a water-based, surfactant-free cleaner, which leaves no residues on substrates or inside the equipment.
- VIGON® SC 210 shows excellent material compatibility.
- VIGON® SC 210 has no flash point and thus can be applied without explosion-proof protection.
- VOC value significantly below 20%, therefore easy to comply with local regulations on VOC emissions.
- Non-foaming, low odor, no buildup of organics in the rinsing section.

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

Process Steps	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	VIGON® SC 210	VIGON® SC 210, Water* or DI-water	Hot, compressed or circulating air
Ultrasonic	VIGON® SC 210	VIGON® SC 210, Water* or DI-water	Hot 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 210 is available as concentrate or ready-to-use solution. Please note that the information below represents VIGON® SC 210 as a ready-to-use mixture.		
Density	(g/ccm) at 20°C/68°F	1.00
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 ₂ 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 ¹	Concentrate	15 %

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

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

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 our "Filter Recommendation" sheet.

Environmental, health and safety regulations

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

Availability/Storage

- VIGON® SC 210 is available as ready-to-use-solution or as concentrate in 1l bottles, 5l or 25l containers and 200l drums.
- VIGON® SC 210 is a non-hazardous material and according to EU standards does not require specific labelling.
- Store VIGON® SC 210 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.