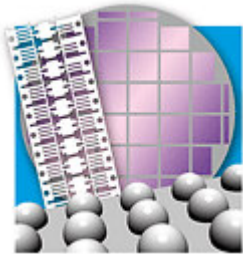


# VIGON® S 100

## Cleaning agent for the cleaning and activation of discrete devices



VIGON® S 100 is an acidic, water-based MPC® cleaning agent, which was especially developed for lead frame based power packages. The cleaning agent removes lead-based solder paste residues and creates highly activated surfaces by deoxidation of copper, which is required for bonding as well as moulding and soldering processes. VIGON® S 100 can be used in spray-in-air equipment (i.e. dishwasher machines), high pressure systems (i.e. inline cleaning equipment) as well as spray-under-immersion cleaning systems (i.e. centrifugal cleaning).

Areas of application: Cleaning of lead frame based Power Packages			Further information on this product:
Tacky Fluxes	No clean	+	<b>Technical Information sheet 2:</b> Overview of all fluxes and solder pastes tested <b>Technical Information sheet 3:</b> Overview regarding material compatibility <b>Application Recommendation:</b> Specific process parameters for your cleaning trial <b>MPC® Technology Information sheet:</b> Additional information on MPC® Technology
	Water-soluble	+	
Solder Paste	No clean	+	
	Water-soluble	+	
	Lead-based	++	
Activation of Cu and Ni surfaces		++	
Particles		++	

++ 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 +49-841-635-140; Email: techsupport@zestron.com

### Advantages compared to other cleaners:

- VIGON® S 100 is a water-based MPC® cleaning agent, therefore the cleaning agent can easily be filtered. This results in a long bath-life, low maintenance and reduced cleaning agent costs.
- Does not foam, even in high pressure equipment.
- VIGON® S 100 is halogen and surfactant free.
- VIGON® S 100 is fully rinsible and does not show any scaling effects in the cleaning machine. This results in very low ionic contamination left on the cleaned substrates.

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

Process	Cleaning	Rinsing*	Drying
Spray in air	VIGON® S 100	DI-Water	Hot circulating air/ Vacuum
Ultrasonic / Spray-under-immersion	VIGON® S 100	DI-Water	Hot circulating air/ Vacuum

Technical Data		
VIGON® S 100 is available as a concentrate or ready-to-use solution. Please note, that the information above represents VIGON® S 100 at an application concentration of 25%.		
Density	(g/ccm) at 20°C/68°C	1.01
Surface tension	(mN/m) at 25°C/77°F	27.1
Boiling range	°C/°F	99-212 / 210-414
Flash point	°C/°F	None
pH-Value	10g/l H <sub>2</sub> O	2.5
Vapor pressure	(mbar) at 20°C/68°F	19.9
Cleaning temperature	°C/°F	40-70 / 104-158
Solubility in water		Soluble
Application concentration	Ready to use	100 %
Application concentration <sup>1</sup>	Concentrate	25 %
HMS Rating	Health-Flammability-Reactivity	2 - 0 - 0

<sup>1</sup>The concentrate of VIGON® S 100 has to be diluted in DI Water.

## LEAD-FREE COMPLIANT



VIGON® S 100 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.

## Filter recommendation:

To take full advantage of the MPC® Technology and further expand VIGON® S 100 bath life, filtration is recommended. For details, please request our "Filter Recommendation" sheet.

## Environmental, health and safety regulations:

VIGON® S 100 is formulated free of halogenated compounds and completely biodegradable. No special precaution for the handling of VIGON® S 100 is required.

## Availability/Storage:

VIGON® S 100 is available as a ready-to-use-solution or as a concentrate (mixing ratio 25%) in 1L bottles and 5L or 25L canisters and 200l drums. VIGON® S 100 is a non-hazardous material and according to EU standard it does not require any specific labelling. Store VIGON® S 100 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 ZESTRON®/VIGON®-cleaning agent:

For the removal of flux residues on soldered PCB boards we recommend VIGON® A 200 or VIGON® A 250 in spray-in-air equipment and ZESTRON® FA<sup>+</sup> or VIGON® US for cleaning in ultrasonic equipment.