ZESTRON® SD 100

Precision cleaning medium for stencils and screens

ZESTRON® SD 100 is a solvent-based cleaning agent used to remove solder paste from SMT stencils in spray-in-air equipment. Misprinted assemblies can also be cleaned with ZESTRON® SD 100.

Areas of application:		**Further information on this product:**
Stencils and screens		
Solder paste (unsoldered)	++	**Technical Information sheet 2**: Overview of all fluxes, solder pastes, SMT adhesives, thickfilm pastes and conductive adhesive
SMT or conductive adhesives	-	
Misprinted boards		**Technical Information sheet 3**: Overview regarding material compatibility
Low solid flux residues	o	
Resin-based flux residues	+	**Application Recommendation**: Specific process parameters for your cleaning trial
Water soluble flux residues	o	

++ highly recommended, best results + recommended o possible

Free-of-Charge Cleaning Trials 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.

Advantages compared to other cleaners:

- High bath loading capability, very good filterability and therefore a long bath life as well as low maintenance costs.
- This cleaner facilitates short process times due to very good drying characteristics.
- With a flash point of 42°C (108°F), ZESTRON® SD 100 can be used in non-heated cleaning equipment without explosion protection.
- ZESTRON® SD 100 can also be used for stencil underside wipe cleaning in printers.
- ZESTRON® SD 100 is based on non-halogen, organic solvents.
- Used at ambient temperature.
- This medium is also applicable for manual cleaning.
- Low odor.

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

ZESTRON® SD 100 has been approved by leading international manufacturers of cleaning equipment, stencil printers and stencils. Approvals can be obtained from ZESTRON.

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Process	Cleaning	Rinsing	Drying
Spray-in-air	ZESTRON® SD 100	ZESTRON® SD 100	Ambient or compressed air

Technical Data		
Density	(g/ccm) at 20°C/68°C	0.76
Surface tension	(mN/m) at 25°C/77°F	21.7
Boiling range	°C/°F	150-178 / 302-352
Flash point	°C/°F	42 / 108
pH-Value	10g/l H_2O	Neutral
Vapor pressure	(mbar) at 20°C/68°F	4.6
Solubility in water		Partially Soluble
Cleaning temperature	°C/°F	Room Temperature
Application concentration	Ready to use	Pure
HMIS Rating	Health-Flammability-Reactivity	1 – 2 – 0

LEAD-FREE COMPLIANT

ZESTRON® SD 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.

Extensive tests confirmed the qualification of ZESTRON® SD 100 for the cleaning of lead-free solder pastes. For detailed results please request our Technical Information 2.

Filter recommendation:

To further improve the long bath life of ZESTRON® SD 100 filtration is recommended. For details, please request our "Filter Recommendation" sheet.

Environmental, health and safety regulations:

ZESTRON® SD 100 is hydrocarbon-based, does not contain any halogenated compounds and is biodegradable. Water rinsing is not necessary. This results in the elimination of water streams and water purification processes. No special precaution in the handling of the ZESTRON® SD 100 has to be taken.

Availability/Storage:

ZESTRON® SD 100 is available in 1L bottles, 5 L or 25 L canisters or 200 L drums.
Store ZESTRON® SD 100 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 further cleaning requirements (i.e. removal of SMT adhesives) we recommend the solvent-based cleaner ZESTRON® SD 301 as well as the water-based medium VIGON® SC 200.

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