

# ZESTRON® SD 300

**Cleaning medium for the removal of solder pastes, SMT adhesives and thick film pastes from stencils and screens**



ZESTRON® SD 300 is a modified solvent-based cleaning agent used to remove solder pastes, SMT adhesives and thick film pastes from stencils and screens in explosion-proof, spray-in-air systems. This medium is also recommended for the cleaning of misprinted PCBs, even double-sided, populated circuit boards. The high flash point allows manual use as well as the application in printers and stencil cleaning equipment.

Areas of application: Stencil and misprint cleaning		Further information on this product:
Solder paste (unsoldered)	++	<b>Technical Information sheet 2:</b> Overview of all fluxes and solder pastes tested
SMT or conductive adhesives	++	
Thick film paste	++	<b>Technical Information sheet 3:</b> Overview regarding material compatibility
Low solid flux residues	0	
Rosin based flux residues	+	<b>Application Recommendation:</b> Specific process parameters for your cleaning trial
Water soluble flux residues	0	

++ 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:

- Due to its wide process window, ZESTRON® SD 300 reliably removes solder pastes, SMT adhesives and resistor pastes from stencils and screens as well as flux residues from misprinted assemblies.
- ZESTRON® SD 300 has a high bath loading capability and therefore a very long bath life and low cleaning costs.
- Due to a flash point of 41°C / 106° F the cleaner can be used without external explosion-protection systems.
- ZESTRON® SD 300 is also recommended for stencil underside wiping in SMT printers.
- Non-halogenated, organic solvent based cleaning agent.
- Applicable at ambient cleaning temperature.

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

ZESTRON® SD 300 is approved by leading international manufacturers of cleaning and screen printing equipment as well as of stencils. Written approvals can be obtained from ZESTRON.

Process	Cleaning	Rinsing	Drying
Explosion-proof spray-in-air system	ZESTRON® SD 300	ZESTRON® SD 300	Circulating or compressed air

Technical Data		
Density	(g/ccm) at 20°C/68°C	0.89
Surface tension	(mN/m) at 25°C/77°F	27.0
Boiling range	°C/°F	120 - 150 / 248 - 302
Flash point	°C/°F	41 / 106
pH-Value	10g/l H <sub>2</sub> O	neutral
Vapor pressure	(mbar) bei 20°C/68°F	6.2
Cleaning temperature	°C/°F	room temperature
Solubility in water		soluble
Application concentration	Ready to use	pure
HMIS Rating	Health-Flammability-Reactivity	1 - 2 - 0

### LEAD-FREE COMPLIANT



ZESTRON® SD 300 meets the new RoHS & WEEE guidelines as well as current worker safety standards and the actual applicable environmental requirements. ZESTRON voluntarily avoids the use of critical substances at product development.



Extensive tests confirmed the qualification of ZESTRON® SD 300 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 time for ZESTRON® SD 300 filtration can be recommended. For details, please request our "Filter Recommendation" sheet.

### Environmental, health and safety regulations:

ZESTRON® SD 300 does not contain any halogenated compounds and is biodegradable. Water rinsing is not necessary. This results in the elimination of waste water.

### Availability/Storage:

ZESTRON® SD 300 is available in 1l bottles, 5l or 25l canisters and 200l drums. Store ZESTRON® SD 300 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 product recommendation:

For water-based cleaning of screens and stencils we recommend the MPC® based product VIGON® SC 200.