

ZESTRON® SD 301

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



ZESTRON® SD 301 is an improved version of ZESTRON® SD 300 with a lower odor. The solvent-based cleaner removes solder pastes, SMT adhesives as well as thick film pastes from stencils and screens in spray-in-air systems. A faster drying time allows for shorter cleaning processes. Its high flash point permits both manual usage and the application in printers and stencil cleaning equipment.

Areas of application:		Further information on this product:	
Stencils and screens		Technical Information sheet 2: Overview of all fluxes and solder pastes tested	
Solder paste (unsoldered)	++		
SMT or conductive adhesives	++		
Thick film pastes	++	Technical Information sheet 3: Overview regarding material compatibility	
Misprinted board cleaning			
Low solid flux residues	o	Application Recommendation: Specific process parameter for your cleaning trial	
Rosin-based flux residues	+		
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:

- Due to its wide process window, ZESTRON® SD 301 reliably removes solder pastes, SMT adhesives and resistor pastes from stencils and screens as well as flux residues from misprinted assemblies.
- High loading capabilities, long bath life and therefore low cleaning costs.
- ZESTRON® SD 301 has a high flash point of 47° C / 117° F and can be used without external explosion-protection systems.
- Has a short application time.
- The cleaning medium is based on non-halogenated, organic solvents.
- Applicable at ambient cleaning temperature.
- Low odor, fast drying time.

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

ZESTRON® SD 301 is approved by leading international manufacturers of cleaning equipments. Written approvals can be obtained from ZESTRON.

Process	Cleaning	Rinsing	Drying
Explosion-proof spray-in-air-system	ZESTRON® SD 301	ZESTRON® SD 301	Circulating or compressed air

Technical Data		
Density	(g/ccm) at 20°C/68°C	0.88
Surface tension	(mN/m) at 25°C/77°F	26.0
Boiling range	°C/°F	150 - 170 / 302 - 338
Flash point	°C/°F	47 / 117
pH-Value	10g/l H ₂ O	neutral
Vapor pressure	(mbar) at 20°C/68°F	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 301 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 301 for the cleaning of lead-free solder pastes. For detailed results please request our Technical Information 2.

Environmental, health and safety regulations:

ZESTRON® SD 301 does not contain halogenated compounds and is biodegradable. Water rinsing is not necessary. This results in the elimination of waste water.

Availability/Storage:

ZESTRON® SD 301 is available in 1L bottles, 5L or 25L canisters and 200L drums. Store ZESTRON® SD 301 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 the water-based cleaning of stencils we recommend the MPC® based product VIGON® SC 200.