

# ZESTRON® DS 100

Water-free defluxing agent for closed loop cleaning systems



ZESTRON® DS 100 is a solvent-based cleaning agent designed to remove flux residues at low temperatures from electronic assemblies, ceramic hybrids, power modules and leadframes in self regenerative closed-loop cleaning systems.

## Areas of application:

PCB's, ceramic hybrids, power modules & leadframes

Low solid flux residues*	+	Rosin based flux residues*	++
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++ highly recommended, best results      + recommended      o possible

\* Applies to all standard, lead-free and eutectic solder pastes tested so far.

## 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:

- Dries residue-free.
- High bath loading capability of ZESTRON® DS 100 ensures extended bath life.
- This cleaner facilitates short process times due to very good drying characteristics.
- Recommended for low temperature defluxing application.
- ZESTRON® DS 100 is based on non-halogenated, organic solvents.
- ZESTRON® DS 100 is particularly suitable for water-free applications, especially when rinsing with water is not permitted.
- ZESTRON® DS 100 works exceptionally well for the cleaning of capillary spaces, i. e. underneath BGA's and flipchips.
- ZESTRON® DS 100 was developed in conjunction with a leading equipment manufacturer for closed-loop processes.

Process	Cleaning	Rinsing	Drying
Spray-under-immersion (explosion-proof)	ZESTRON® DS 100	ZESTRON® DS 100 or IPA	Room temperature

Technical Data		
Density	(g/ccm) at 20°C/68°C	0.90
Surface tension	(mN/m) at 25°C/77°F	25.4
Boiling range	°C/°F	150 – 175 / 302 – 347
Flash point	°C/°F	43 / 109
pH-Value	10g/l H <sub>2</sub> O	neutral
Vapor pressure	(mbar) at 20°C/68°F	2
Cleaning temperature	°C/°F	20 – 30 / 68 - 86
Solubility in water		Fully miscible
Application concentration	Ready to use	Pure
HMIS Rating	Health-Flammability-Reactivity	0 – 2 – 0

## LEAD-FREE COMPLIANT



ZESTRON® DS 100 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.

### Environmental, health and safety regulations:

ZESTRON® DS 100 is solvent-based and fully biodegradable. The cleaner is formulated free of any halogenated compounds and is environmentally friendly. Please refer to the Safety Datasheet for handling precautions and instructions.

### Availability/Storage:

ZESTRON® DS 100 is available in 1l, 5l, 25l canisters and 200l drums. Store ZESTRON® DS 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.

### Cleaning standards:

Electronic assemblies cleaned in a ZESTRON specified process with ZESTRON® DS 100 meet the following industry standards:

- IPC 610 Visual cleanliness
- J-STD 001 D Ionic cleanliness
- IPC-TM 650 (surface resistance)
- J-STD 003 solderability

### Alternative product recommendation:

For the removal of flux residues with a MPC® based medium in dip tanks we recommend VIGON® US, for cleaning in spray applications we recommend VIGON® A 200+ and VIGON® A 201.