

# ZESTRON® VD

## Solvent-based cleaning medium for defluxing



ZESTRON® VD is a solvent-based cleaning agent designed to remove flux residues from electronic assemblies, ceramic hybrids, power modules and lead frames in closed-loop, one chamber, vapor degreasing type systems.

Areas of application: PCB's, ceramic hybrids, power modules & lead frames		Additional product information:
Low solid flux residues*	+	<b>Application Recommendation:</b> Specific parameters for your cleaning process  <b>Technical Information Sheet 2:</b> Overview of pastes and fluxes tested  <b>Technical Information Sheet 3:</b> Material compatibility overview
Rosin based flux residues*	+	
Water soluble flux residues*	○	
Solder paste (unsoldered)	++	
SMT or conductive adhesives	+	
Thick film pastes	+	

++ highly recommended, best results      + recommended      ○ possible

### Technical Centers - ① America ② Europe ③ Malaysia ④ East China ⑤ South China Cleaning Process Solutions under Production Floor Conditions



Contact ZESTRON's Process Engineering Team for free-of-charge cleaning trials:  
Phone: +1 (703) 393-9880; Email: [infoUSA@zestron.com](mailto:infoUSA@zestron.com)

### Advantages compared to other surfactant cleaners:

- Due to its polar and nonpolar components, ZESTRON® VD is suitable for a wide range of applications.
- Completely distillable and therefore suitable for one chamber vapor degreaser processes with vacuum distillation and vapor rinsing step.
- Halogen and surfactant-free.
- Dries residue-free.
- Ideal for use in water-free applications, especially when water rinsing is restricted
- Ideal for cleaning capillary spaces, such as underneath BGA's and flipchips.
- Also applicable for stencil cleaning and underside wipe processes in SMT printers.

Please refer to the material compatibility datasheet (Technical Information 3) prior to cleaning plastics.



# ZESTRON

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TECHNICAL INFORMATION 1

Process	1. Cleaning	2. Rinsing	3. Drying
Closed loop processes with vapor rinsing	ZESTRON® VD	ZESTRON® VD	Vacuum
Spray-in-air (explosion-proof)	ZESTRON® VD	ZESTRON® VD	Ambient or compressed air
Ultrasonic	ZESTRON® VD	ZESTRON® VD	Ambient or compressed air

Technical Data		
Density	g/ccm at 20°C / 68°F	0.88
Surface tension	mN/m at 25°C / 77°F	26.3
Boiling range	°C/°F	170 - 175 / 338 - 347
Flash point	°C/°F	62 / 144
pH-value	10g/l H <sub>2</sub> O	Neutral
Vapor pressure	(mbar) at 20°C/68°F	1.0
Cleaning temperature	°C/°F	40 - 45 / 104 - 113
Application concentration	Ready to use	Pure
HMIS rating	Health-Flammability-Reactivity	1 - 2 - 0

## PRODUCT FEATURES



Extensively tested and suitable for cleaning of lead-free solder pastes



100% compliance with EU guidelines (RoHS 1 & 2, WEEE)

### Environmental, health and safety regulations:

- ZESTRON® VD is solvent-based and biodegradable.
- The cleaner does not contain any halogenated compounds and is environmentally friendly.
- Refer to the MSDS for specific handling precautions and instructions.

### Availability:

- ZESTRON® VD is available in 1L, 5L or 25L containers and 200L drums.

### Storage:

- Store ZESTRON® VD 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 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 250 and VIGON® A 201.

### Cleaning standards:

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

- IPC 610 Visual cleanliness
- J-STD 001 E Ionic cleanliness
- IPC-TM 650 and DIN 32513 (surface resistance)
- J-STD 003 Solderability

