

ZESTRON® FA⁺

Precision cleaning medium for flux removal



ZESTRON® FA⁺ is a modified alcohol-based cleaning agent designed to remove all types of flux residues from electronic assemblies. ZESTRON® FA⁺ is used in ultrasonic, spray-under-immersion or centrifugal cleaning systems.

Technical Data

Density (g/ccm) at 20°C (68°F)	0.94
Surface tension (mN/m) at 25°C (77°F)	29,1
Boiling range (°C/°F)	162 – 190 / 324 – 374
Flash point (°C/°F)	75 / 167
pH-Value (10g/l H ₂ O)	10.4
Vapor pressure (mbar) at 20°C/68°F	0.47
Cleaning temperature (°C/°F)	40 – 55 / 104 – 131
Solubility in water	Readily soluble
Application concentration	Pure

HMIS Rating

Health	1
Flammability	2
Reactivity	0

Areas of application

Cleaning of electronic assemblies

Low solid flux residues	++	Solder paste (unsoldered)	+
Rosin based flux residues	++	SMT or conductive adhesive	+
Water soluble flux residues	+		

++ highly recommended, best results + recommended o possible

Please ask for a detailed overview on flux residues and solder pastes that have been tested.

Process

	Cleaning	Rinsing	Drying
Ultrasonic	ZESTRON® FA ⁺	DI-water	Hot or circulated air
Centrifugal Cleaning	ZESTRON® FA ⁺	DI-water	Hot air

Application recommendations for ZESTRON® FA⁺ are intended to serve as a guideline only. Consult with the ZESTRON's Application Labs for a no-charge cleaning trial.

Changes reserved.

TECHNICAL INFORMATION 1

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Special properties:

- Halogen-free.
- Surfactant-free.
- High flash point.

Please check material compatibility, and refer to the material compatibility list, before cleaning plastics.

Advantages compared to other cleaners:

- ZESTRON® FA⁺ has been EMPF Phase II tested and MIL approved.
- ZESTRON® FA⁺ has been SNAP approved.
- Excellent material compatibility, particularly with metals, making it ideal for hybrid applications.
- Excellent solvency for all types of flux residues, making it ideal for thickfilm applications.
- ZESTRON® FA⁺'s low surface tension makes it ideal for flip-chip applications.
- High bath loading capability ensures extended bath-life, low maintenance costs, and reduced cleaning agent costs.
- Using ZESTRON® FA⁺ in combination with microfiltration and/or flux adsorption systems extends its operating life, further reducing cleaning costs. Please contact ZESTRON Corporation for more information about these systems.

ZESTRON® FA⁺ is approved by leading international manufacturers of cleaning machines. Approvals can be obtained from ZESTRON®.

Environmental, health and safety regulations:

ZESTRON® FA⁺ does not contain halogenated compounds and is biodegradable. No special precaution in the handling of the ZESTRON® FA⁺ has to be taken.

Availability:

ZESTRON® FA⁺ is available as ready-to-use-solution in 1l bottles, 5l or 25l canisters or 200l drums. The product is not a hazardous material.

Storage:

Store ZESTRON® FA⁺ in the original container in 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 ZESTRON®/VIGON®-cleaning agents:

For the removal of fluxes with a water based medium in dip tanks we recommend VIGON® US, for cleaning in spray application we recommend VIGON® A 200.

Your ZESTRON® sales partner:

