

ATRON® SP 300

Aqueous-based alkaline cleaning medium for heat exchangers, condensation traps, and pallets



ATRON® SP 300, based on FAST® Technology, is an aqueous alkaline cleaner, specifically designed to remove baked-on flux residues from heat exchangers, condensation traps and solder pallets. The cleaning agent is also capable of removing lubricant oils, grease and other residues from stainless steel substrates. ATRON® SP 300 can be used in spray assisted, spray-in-air, spray-under-immersion and ultrasonic cleaning equipment

Areas of Application: Heat Exchangers / Condensation Traps / Solder Frames

Recommended Applications:	Additional Product Information
Baked-on fluxes	Material Compatibility Overview FAST® Technology Sheet Safety Data Sheet
Cooling Lubricants	
Grease/Oils	
Resin/Wax	

Applies to leaded and lead-free solder pastes

Key Benefits

- Extremely long bath life ensures reduced cleaning agent costs.
- Excellent cleaning performance with all types of flux and solder paste residues.
- Can also be used for rinsing purpose when used at lower concentrations resulting from its solid-free formula.
- Suitable for use in all types of cleaning equipment.
- Wide material compatibility window.
- Low odor.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Air assisted	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 300	ATRON® SP 300 or DI-water	Hot air or circulating air
Spray-in-air	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 300	ATRON® SP 300 or DI-water	Hot air or circulating air
Spray-under-immersion	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 300	ATRON® SP 300 or DI-water	Hot air or circulating air
Ultrasonic	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 300	ATRON® SP 300 or DI-water	Hot air or circulating air

Please refer to the Material Compatibility Overview prior to cleaning plastics.

Technical Data: ATRON® SP 300 as a ready-to-use mixture

Density	(g/cm ³) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	30.4
Boiling point	°C/°F	99 – 229 / 210 – 444
Flash point	°C/°F	None until boiling
pH value	10g/l H ₂ O	11.2
Vapor pressure	(mbar) at 20°C/68°F	Approx. 18.7
Cleaning temperature	°C/°F	20 – 70 / 68 – 158
Solubility in water		Soluble
Application concentration	Ready-to-use	Pure
Application concentration ¹	Concentrate	10 – 25%
HMIS Rating	Health-Flammability-Reactivity	0 – 0 – 0

¹ ATRON® SP 300 is recommended to be diluted in DI-water

Product Features & Cleaning Standards



FAST® Technology ensures fast removal of flux residues even under components



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



100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)



Product is free of any critical substances according to SIN & SVHC lists

Environmental, Health & Safety Regulations

- Water-based and biodegradable.
- Formulated free of any halogenated compounds.
- Compliant with the latest ODS regulations and does not contain HAPs.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

1 Liter	✓
5 Liter	✓
25 Liter	✓
200 Liter	✓

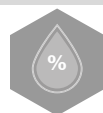
- Available as concentrate and ready-to-use
- Store ATRON® SP 300 in the original container at a temperature between 5 - 30°C / 41 - 86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.



Process Optimization



To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For ATRON® SP 300 the following process support product is available:



Concentration measurement:

- ZESTRON® Bath Analyzer 10 is a manual test method for fast and reliable checks of cleaning agent concentration.

Contact ZESTRON's Application Engineering Team for more information or trials:
Phone: +1 (703) 393-9880 Email: infousa@zestron.com