

ATRON® SP 310



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

ATRON® SP 310, powered by FAST® Technology, is a water-based alkaline solution crafted to tackle stubborn flux residues on condensation traps, heat exchangers and solder pallets. Additionally, it effectively removes lubricant oils, grease and other impurities from stainless steel. ATRON® SP 310 is compatible with air assisted, spray-under-immersion, spray-in-air and ultrasonic cleaning systems.

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

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

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Air assisted	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 310	ATRON® SP 310* or DI-water	Hot air or circulating air
Spray-in-air	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 310	ATRON® SP 310* or DI-water	Hot air or circulating air
Spray-under-immersion	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 310	ATRON® SP 310* or DI-water	Hot air or circulating air
Ultrasonic	Heat exchangers, Condensation traps, Solder frames	ATRON® SP 310	ATRON® SP 310* or DI-water	Hot air or circulating air

*Rinsing with ATRON® SP 310 is only applicable when also **cleaning** with ATRON® SP 310 at 10%. Please refer to the Material Compatibility Overview prior to cleaning plastics.

Technical Data: ATRON® SP 310 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 310 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 310 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 310 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:
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