

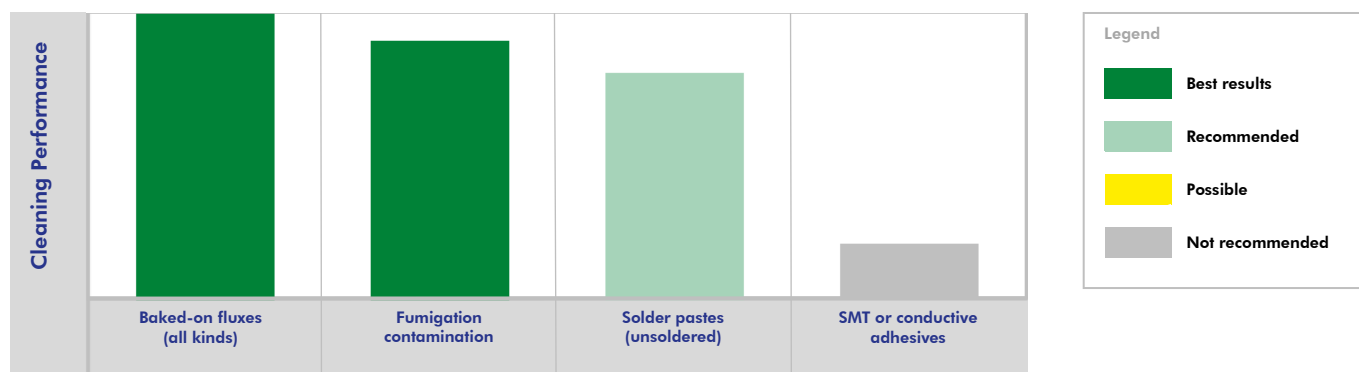
## ATRON® SP 400

Water-based cleaning medium for the removal of fluxes from solder pallets and condensation traps in spray-in-air processes

ATRON® SP 400 is a water-based cleaning agent developed to remove baked-on fluxes from solder pallets and condensation traps. ATRON® SP 400 is specially developed for spray-in-air cleaning processes.



### Areas of application – Condensation traps / Solder frame



### Advantages compared to other cleaners

- ATRON® SP 400 is very stable against foaming, even with high flux content.
- ATRON® SP 400 can easily be filtered and therefore provides 3 to 10 times longer bath life than traditional surfactant cleaners. This results in a lower volume of used cleaner reducing overall cleaning agent costs.
- Excellent compatibility with solder pallets, condensation traps and equipment parts (i.e. made of PVC).
- ATRON® SP 400 has no flashpoint therefore not requiring ex-proof equipment.
- No build-up of organics in the rinsing section.
- Low odor.
- ATRON® SP 400 is also suitable for the manual removal of extremely baked-on flux residues in solder ovens and similar applications.

### Process Steps

Cleaning Process	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air	ATRON® SP 400	Tap water at room temperature	Hot or circulating air

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**Contact ZESTRON's process engineers for cleaning trials:**

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## Technical Data\*

Density	(g/ccm) at 20°C/68°F	1.01
Surface tension	(mN/m) at 25°C/77°F	n.a.
Boiling point	°C/°F	100-190°C / 212-374°F
Flash point	°C/°F	None until boiling
pH value	10g/l H <sub>2</sub> O	10.4
Vapor pressure	(mbar) at 20°C/68°F	n.a.
Cleaning temperature	°C/°F	15-35°C / 59-95°F
Solubility in water		Soluble
Application concentration	Ready-to-use	Pure
Application concentration <sup>1</sup>	Concentrate	50 %
HMIS Rating	Health-Flammability-Reactivity	0 - 0 - 0

\* ATRON® SP 400 is available as concentrate or ready-to-use-solution. The information above represents a ready-to-use-mixture.

<sup>1</sup> The concentrate of ATRON® SP 400 has to be diluted in DI-water.

## Product Features & Cleaning Standards



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



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



Extensively tested and suitable for cleaning lead-free  
solder pastes

## Environmental, health & safety regulations

- ATRON® SP 400 is water-based and biodegradable.
- ATRON® SP 400 is formulated free of any halogenated compounds and therefore environmentally friendly.
- Refer to the SDS for specific handling precautions and instructions.
- This product is non-hazardous material.

## Availability & Storage

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

- Available as concentrate and ready-to-use solution
- Store ATRON® SP 400 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.



## Further product information

- **Material Compatibility**  
Please review the Material Compatibility overview before using the cleaning agent
- **FAST® Technology Sheet**  
Detailed information on FAST® Technology
- **Safety Data Sheet**

## Available Process Optimization –Products

To ensure a stable running cleaning process, it is important to monitor cleaning agent. For ATRON® SP 400 following process support products are available:



### Concentration measurement:

- ZESTRON® Easy Bath Control Kit a manual test method for fast and reliable checks on cleaner concentration.