

ATRON® SP 300

Aqueous cleaning medium for cyclones, condensation traps and solder pallets



ATRON® SP 300 is an aqueous-alkaline cleaner, specifically designed to remove baked-on flux residues from cyclones, condensation traps, as well as solder pallets. ATRON® SP 300 can be used in single batch cleaning systems with air assisted cleaning and a unit for external cleaning of containers and tubing.

Areas of application: Maintenance Cleaning		Further information for this product:
Low solid flux residues*	++	Technical Information Sheet 3: Overview regarding material compatibility Application Recommendation: Specific process parameters for your cleaning trial
Rosin based flux residues*	++	
Water soluble flux residues*	++	
Synthetic fluxes*	o	
Fumigation contamination	++	

++ highly recommended, best results + recommended o possible - not recommended
 * Valid for all standard-, lead-free and lead-based solders

Free-of-Charge Cleaning Trials & Surface Analytics at ZESTRON's Technical Centers



Free-of-charge cleaning trials can be performed at one of ZESTRON's Global Technical Centers. ZESTRON's European, North American and Asian Technical Centers feature spray-in-air, ultrasonic or spray-under-immersion processes. This provides an extensive overview on all available processes by leading international equipment manufacturers.



Upon completion of the cleaning trials, extensive analytical tests such as SIR and ionic residue measurements can be performed.

Please consult with ZESTRON's Application Technology Centers regarding future cleaning trials: Phone +49-841-635-26; Email: techsupport@zestron.com

Advantages compared to other cleaning agents:

- Extremely long bath life ensures reduced cleaning agent costs
- Excellent cleaning performance with all types of flux and solder paste residues
- Solid content-free formula, therefore no water rinsing or active drying required
- Extremely low VOC reduces emission values
- Low odor and highest working safety requirements
- Very good material compatibility

Please refer to the material compatibility list (Technical Information 3) before cleaning plastics.

Process	Cleaning	Rinsing	Drying
Air assisted cleaning	ATRON® SP 300	-*	-*
Spray-under-immersion	ATRON® SP 300	-*	-*

*Due to excellent run-off characteristics of ATRON® SP 300 water rinsing and drying are not necessary

Technical Data		
ATRON® SP 300 is available as a concentrate or ready-to-use solution. Please note that the information below represents ATRON® SP 300 as a ready-to-use mixture.		
Density	(g/ccm) at 20°C/68°F	0.99
Surface tension	(mN/m) at 25°C/77°F	30.4
Boiling range	°C/°F	99 – 229 / 210 – 444.2
Flash point	°C/°F	None
pH-Value	10g/l H ₂ O	11.2
Vapor pressure	(mbar) at 20°C/68°F	Approx. 18.7
Solubility in water		Soluble
Cleaning temperature	°C/°F	20 – 70 / 68 - 158
Application concentration	Ready to use	Pure
Application concentration ¹	Concentrate in %	25
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

¹ the concentrate of ATRON® SP 300 has to be diluted in DI Water.

LEAD-FREE COMPLIANT



ATRON® SP 300 meets the RoHS & WEEE guidelines, current worker safety standards as well as the actual applicable environmental requirements. ZESTRON voluntarily avoids the use of critical substances during product development.



Extensive tests confirmed the qualification of ATRON® SP 300 for the cleaning of lead-free solder pastes.

Environmental, health and safety regulations:

ATRON® SP 300 is water-based and biodegradable. ATRON® SP 300 is formulated free of halogenated compounds and is very environmentally friendly. No special precaution for handling ATRON® SP 300 is required.

Availability/Storage:

ATRON® SP 300 is available as a ready-to-use solution and as a concentrate in 1L bottles, 5L, 25L containers and 200L drums. This product is non-hazardous. 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.

Alternative product recommendation:

For manual removal of flux residues from reflow oven we recommend VIGON® RC 101.