

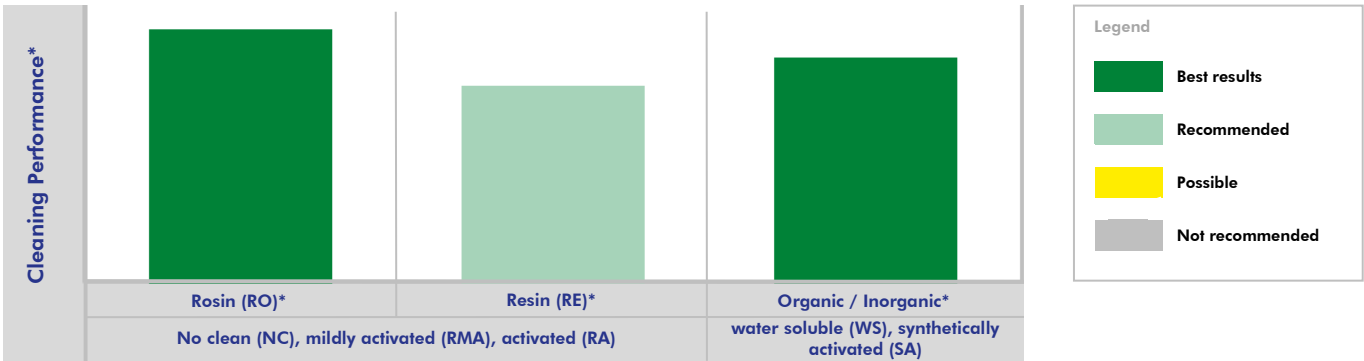


ATRON® AC 207

Water-based, alkaline defluxing agent for spray-in-air processes

ATRON® AC 207 is a FAST® Technology-based cleaning agent for electronic assemblies specifically designed to operate at low concentration levels. The product was developed to improve the cleaning performance and bath life of conventional surfactant-based cleaners and is particularly gentle on sensitive metals. ATRON® AC 207 can be used in processes with high as well as medium spray pressure in inline and batch cleaning systems.

Areas of application – PCBA Defluxing



* J-STD-004

Advantages compared to other cleaners

- Due to its mild formulation and the low operating concentration, the cleaning agent demonstrates a superior level of material compatibility with sensitive metals such as aluminum, brass, nickel, etc.
- Excellent cleaning performance, even at low concentrations and temperatures.
- Allows for a quicker removal of a wide variety of the latest lead-free and eutectic flux residues.
- Gentle formula leaves solder joints and pads shiny and bright.
- Ensures a void-free underfill by removing all tacky fluxes from Flip Chips.
- Increased wire bonding quality for power modules due to excellent flux removal.
- longer bath life than conventional surfactant-based cleaners and extremely low VOC levels.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCBAs (Power Modules, Flip Chips)	ATRON® AC 207	DI-water	Hot air or circulating air

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Machine Test Center



Analytical Center

Visit our Machine Test Center and clean your electronic assemblies in cleaning machines of leading international equipment suppliers.

Your benefits:

- You are introduced to the cleaning machines & you clean your PCBAs under production conditions supported by your ZESTRON process engineer
- You check the cleaning results immediately on site (ROSE, optionally IR, IC, SEM/EDX etc.) for maximum comparability & result transparency
- You receive a process guarantee including detailed process parameters for the machine/cleaner combination that we recommend

Contact ZESTRON's process engineers for cleaning trials:

Europe: +49 8453 41995 318; techsupport@zestron.com / South Asia: +604 (3996) 100; support@zestronasia.com





Technical Data*

Density	(g/ccm) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	27.2
Boiling point	°C/°F	> 100°C / > 212°F
Flash point	°C/°F	None until boiling
pH value	10g/l H ₂ O	10.2
Vapor pressure	(mbar) at 20°C/68°F	Approx. 20
Cleaning temperature	°C/°F	40 - 70°C / 104 - 158°F
Solubility in water		Miscible
Application concentration ¹ (inline)	Concentrate	5 - 15 %
Application concentration ¹ (batch)	Concentrate	15 - 30 %
HMIS Rating	Health-Flammability-Reactivity	1 - 0 - 0

* Please note that the following information represents ATRON® AC 207 at 10 % concentration.

¹ The concentrate of ATRON® AC 207 has to be diluted in DI-water.

Product Features & Cleaning Standards

	100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)	<p>Electronic assemblies cleaned with ATRON® AC 207 in a ZESTRON specified process meet the following industry standards:</p> <ul style="list-style-type: none"> ■ IPC-A-610 Visual cleanliness ■ J-STD 001 Ionic and resin cleanliness and foreign object debris ■ IPC 5704 Cleanliness requirements for bare boards ■ IPC-Hdbk-65B Guidelines for cleaning of printed boards and assemblies <p>A cleaning process using ATRON® AC 207 can help to reduce particle contamination.</p>
	Extensively tested and suitable for cleaning lead-free solder pastes	
	FAST® Technology ensures the fast removal of flux residues even under components	
	Product is free of any critical substances according to SIN & SVHC lists	

Environmental, health & safety regulations

- ATRON® AC 207 is water-based and biodegradable.
- ATRON® AC 207 is formulated free of any halogenated compounds.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

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

- Available as concentrate
- Store ATRON® AC 207 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.
- **Filter recommendation**
To take full advantage of FAST® Technology and further extend the bath life of ATRON® AC 207, filtration is recommended.
- **Safety data sheet**

Available Process –Optimization –Products

To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration and regular bath treatment. For ATRON® AC 207 a variety of process support products are available:



Concentration measurement:

- ZESTRON® EYE for automated real-time concentration monitoring providing 100% traceability,
- ZESTRON® Bath Analyzer 10 a manual test method for fast and reliable checks on cleaner concentration.