

ATRON® AC 207

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



ATRON® AC 207, based on the FAST® Technology, is a cleaning agent specifically designed to operate at low concentration levels. The product was developed to improve the cleaning performance and bath life of traditional surfactant-based cleaners and is compatible with sensitive metals. ATRON® AC 207 can be used in processes with high and medium pressure inline or batch cleaning systems.

Areas of Application: PCB Cleaning

Recommended Applications:	Additional Product Information
Low solid flux residues	Material Compatibility Overview FAST® Technology Sheet Safety Data Sheet
Rosin based flux residues	
Water soluble flux residues	
Solder paste (unsoldered)	

Applies to leaded and lead-free solder pastes and liquid fluxes

Key Benefits

- Due to its mild formulation and the low operating concentration, ATRON® AC 207 demonstrates a superior level of material compatibility with sensitive metals such as aluminum, brass, nickel, etc.
- Gentle formulation leaves solder joints and pads shiny and bright.
- Ensures a void-free underfill by removing all tacky flux residues 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)	PCBs, Power Modules, Flip Chips, BGAs	ATRON® AC 207	DI-water	Hot air or circulating air
Ultrasonic/Centrifugal	PCBs, Power Modules, Flip Chips, BGAs	ATRON® AC 207	DI-water	Hot air or circulating air

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

Technical Data: ATRON® AC 207 at 10% Concentration

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	27.2
Boiling point	°C/°F	> 100 / > 212
Flash point	°C/°F	None
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 / 104 - 158
Solubility in water		Soluble
Application concentration ¹	Concentrate	5 – 20%
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

¹ ATRON® AC 207 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

- ATRON® AC 207 is water-based and biodegradable.
- 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.



Process Optimization



To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration. For ATRON® AC 207 the following process support product is available:



Concentration measurement:

- ZESTRON® EYE for automated real-time concentration monitoring providing 100% traceability.
- 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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