

ATRON® AC 205



Aqueous-based cleaning medium for defluxing

ATRON® AC 205 is a FAST® Technology-based cleaning agent specifically designed to remove flux residues from electronic assemblies, and is also suitable for cleaning power LEDs, Flip Chip packages, CMOS and BGAs. The product was developed to improve the cleaning performance and bath life of traditional surfactant-based cleaners, thereby significantly reducing overall cleaning costs. ATRON® AC 205's mild formulation is particularly gentle on all materials and solder joints. ATRON® AC 205 can be used as a drop-in replacement for high and medium pressure, inline and batch cleaning systems.

Areas of Application: PCB Defluxing

Recommended Applications:	Additional Product Information
Low solid flux residues	Material Compatibility Overview
Water Soluble flux residues	FAST® Technology Sheet
Rosin-based flux residues	Safety Data Sheet

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

Key Benefits

- Ethanolamine-free.
- Enables fast removal of a wide variety of lead-free and eutectic flux residues.
- 3 – 10 times longer bath life than traditional surfactant cleaners.
- The non-foaming formula does not promote “white scaling.”
- Gentle formulation leaves solder joints and pads shiny and bright.
- Low odor.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCBs, Power LEDs, Flip Chips, CMOS, BGAs	ATRON® AC 205	DI-water	Hot air or circulating air
Ultrasonic	PCBs, Power LEDs, Flip Chips, BGAs	ATRON® AC 205	DI-water	Hot air or circulating air

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

Technical Data: ATRON® AC 205 at 10% Concentration

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	28.9
Boiling point	°C/°F	100 / > 212
Flash point	°C/°F	None
pH value	10g/l H ₂ O	10.4
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 - 15%
HMIS Rating	Health-Flammability-Reactivity	1 - 0 - 0

¹ ATRON® AC 205 is recommended to be diluted in DI-water

Product Features & Cleaning Standards



FAST® Technology ensures quick 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.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

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

- Available as concentrate.
- Store VIGON® AC 205 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 205 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:
 Phone: +1 (703) 393-9880 Email: infousa@zestron.com