

# 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. The product was developed to improve upon the cleaning performance and bath life of traditional surfactant-based cleaners thereby significantly reducing overall cleaning costs. ATRON® AC 205's mild formula 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 cleaning		Further information on this product:
Low solid flux residues	++	<b>Technical Information Sheet 2:</b> Overview of all fluxes and solder pastes tested  <b>Technical Information Sheet 3:</b> Overview regarding material compatibility  <b>Application Recommendation:</b> Specific process parameters for your cleaning trial  <b>FAST® Technology sheet:</b> Additional Information on FAST® Technology
Rosin-based flux residues	++	
Water soluble flux residues	++	
Solder paste (unsoldered)	+	

++ highly recommended, best results      + recommended      o possible

### 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.

### Advantages compared to other surfactant cleaners

- Ethanolamine-free.
- Allow for a quicker removal of a wide variety of the latest lead-free and eutectic flux residues.
- 3 to 10 times longer bath life than traditional surfactant-based cleaners.
- The non-foaming formula eliminates "white scaling."
- Gentle formula leaves solder joints and pads shiny and bright.
- Specially formulated for excellent compatibility towards aluminum and epoxy surfaces.
- Extremely low VOCs and Low odor.
- Depending on the local regulations, this cleaner may be simply disposed through the regular water-waste treatment system.

Please check the material compatibility datasheet (Technical Information 3) prior to cleaning.

Process	Cleaning	Rinsing	Drying
Spray-in-air (inline)	ATRON® AC 205	DI- water	Hot or circulating air
Spray-in-air (batch)	ATRON® AC 205	DI- water	Hot or circulating air

Technical Data		
Please note that this information represents ATRON® AC 205 at a 10% concentration.		
Density	g/ccm at 68°F / 20°C	1.00
Surface tension	mN/m at 77°F / 25°C	28.9
Boiling range	°F/°C	> 212°F / 100°C
Flash point	°F/°C	None
pH-Value	10g/l H <sub>2</sub> O	11.49
Cleaning temperature	°F/°C	104 – 158°F / 40 – 70°C
Application	%	5 – 15
HMIS Rating	Health-Flammability-Reactivity	1 – 0 – 0

### Lead-free compliant:



ATRON® AC 205 meets the new RoHS & WEEE guidelines as well as current worker safety standards and the actual applicable environmental requirements. ZESTRON voluntarily avoids the use of critical substances during product development.



Extensive lead-free defluxing with ATRON® AC 205 was successfully completed by our Application Technology Centers.

### Environmental, health and safety regulations

ATRON® AC 205 is water-based and biodegradable. Refer to the MSDS for specific handling precautions and instructions.

### Availability/Storage

ATRON® AC 205 is available as a concentrate in 1L bottles, 5 L or 25 L canisters or 200 L drums. Store ATRON® AC 205 in the original container at a temperature between 41 – 86°F / 5 - 30°C. The product has a minimum shelf life of 5 years in factory sealed containers.

### Alternative product recommendation

For high end defluxing and closed loop processing requirement, we also recommend MPC® Technology-based products, such as VIGON® A 200+ for low pressure batch cleaning and VIGON® A 201 for high and medium pressure inline cleaning.