

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	++	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	++	
Solder paste (unsoldered)	+	

++ highly recommended, best results + recommended o possible

Cleaning trials at ZESTRON's Technical Centers

Free-of-charge cleaning trials can be performed at one of ZESTRON's Global Technical Centers. ZESTRON's North American, European and Asian Technical Centers feature spray-in-air, ultrasonic and spray-under-immersion processes. This provides an extensive overview on all available processes by leading equipment manufacturers and offers the user a unique testing opportunity. Please consult with ZESTRON's Application Technology Centers regarding future cleaning trials. Phone: (703) 393-9880 or toll-free (888) 999-9116. Email: infousa@zestron.com.

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.
- Low odor.
- Extremely low VOCs.
- 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 ₂ 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 2 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.