

ATRON® AC 330



Aqueous-based, Low VOC, alkaline defluxing agent designed for PCB assemblies

ATRON® AC 330 is a low VOC cleaning agent designed to be used in spray-in-air inline and batch cleaning systems. ATRON® AC 330 is specifically designed to offer superior defluxing performance on PCB assemblies while qualifying as a low VOC product as defined by EPA Method 24. This cleaning agent removes a wide range of electronic assembly flux residues and offers excellent material compatibility with a variety of sensitive materials such as copper, anodized aluminum, etc.

Areas of Application: PCB Defluxing

Recommended Solder Paste Applications:	Additional Product Information
No Clean (NC)	Material Compatibility Overview Safety Data Sheet
Water Soluble (WS)	
Rosin (R)	
Rosin Mildly Activated (RMA)	
Rosin Activated (RA)	

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

Key Benefits

- Excellent material compatibility with sensitive materials including copper and aluminum.
- Exceptional cleaning performance, especially when compared with other competitive chemistries that are used at low concentrations in order to meet VOC requirements.
- Significantly reduced evaporative losses, thereby reducing overall consumption of cleaning agent.

Process Steps

Cleaning Process	Parts	1. Cleaning	2. Rinsing	3. Drying
Spray-in-air (inline & batch)	PCB	ATRON® AC 330	DI-water	Hot air or circulating air

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

Technical Data: ATRON® AC 330 at 15% Concentration

Density	(g/cm ³) at 20°C/68°F	1.00
Surface tension	(mN/m) at 25°C/77°F	Undetermined
Boiling point	°C/°F	> 98 / > 208
Flash point	°C/°F	> 100 °C (>212 °F)
pH value	10g/l H ₂ O	10.3
Vapor pressure	(mbar) at 20°C/68°F	Undetermined
Cleaning temperature	°C/°F	40 – 70 / 104 – 158
Solubility in water		Soluble
Application concentration ¹ (inline and batch)	Concentrate	10-20%
HMIS Rating	Health-Flammability-Reactivity	1-0-0
VOC of 15% solution (as per EPA method 24)	g/liter	5

¹ ATRON® AC 330 is recommended to be diluted in DI-water

Product Features & Cleaning Standards



Extensively tested and suitable for cleaning of lead-free solder pastes



Low VOC cleaning agent



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.
- Low VOC formulation.
- Formulated free of any halogenated compounds.
- Compliant with the latest ODS regulations and does not contain HAPs.
- 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 330 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 330 the following process support products are available:



Concentration measurement:

- ZESTRON® EYE concentration monitoring systems accurately and automatically measure the cleaning agent concentration.
- ZESTRON® Bath Analyzer 30 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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