

Aqueous-based cleaning medium for defluxing



HYDRON® WS 400 is a FAST® Technology based aqueous cleaning agent specifically designed to remove water soluble (WS) flux residues from electronic assemblies and is compatible with sensitive metals. Applied at low concentrations (3% to 5%), the cleaning agent has been specifically developed to penetrate the capillary spaces underneath low standoff components where

DI-water only applications can no longer provide reliable cleanliness levels. Also, it effectively removes RMA and No Clean flux residues at increased concentrations up to 15%.

Areas of application: PCB			
Recommended solder paste applications:	Additional product information:		
Water Soluble (WS)	Technical Information Sheet 3:		
No Clean (NC)	Material compatibility overview		
Rosin Mildly Activated (RMA)	FAST® Technology Sheet:		
Rosin (R)	Additional information on FAST®		
Rosin Activated (RA)	Technology		

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

Technical Centers - ① America ② Europe ③ Malaysia ④ East China ⑤ South China Cleaning Process Solutions under Production Floor Conditions











Contact ZESTRON's Process Engineering Team for free-of-charge cleaning trials: Phone: +1 (703) 393-9880; Email: infousa@zestron.com

Advantages compared to other surfactant cleaners:

- Fast removal of a wide variety of the latest water soluble (WS) flux residues.
- Designed for use with WS pastes/fluxes at lower concentrations 3% to 5%.
- Non-foaming formula that does not promote "white scaling."
- Gentle formulation leaves solder joints and pads shiny and bright.
- Specifically formulated for excellent compatibility with aluminum and epoxy surfaces.
- Ethanolamine-free.
- Low odor.

Please refer to the material compatibility overview (Technical Information 3) prior to cleaning plastics.

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Process	Cleaning	Rinsing	Drying
Spray-in-air (inline)	HYDRON® WS 400	DI-water	Hot or circulated air
Spray-in-air (batch)	HYDRON® WS 400	DI-water	Hot or circulated air
Ultrasonic	HYDRON® WS 400	DI-water	Hot or circulated air

Technical Data: HYDRON® WS 400 at 5% concentration				
Density	(g/ccm) at 20°C/68°F	1.00		
Surface tension	(mN/m) at 25°C/77°F	39.6		
Boiling range	°C/°F	> 98/208		
Flash point	°C/°F	None		
pH value	10g/l H ₂ O	9.3		
Cleaning temperature	°C/°F	40-70/104-158		
Application concentration (WS)	%	3-5		
Application concentration (RMA/No Clean)	%	3-15		
HMIS rating	Health-Flammability-Reactivity	1-0-0		

Product Features



Extensively tested and suitable for cleaning of LF solder pastes



Product is free of any critical substances according to SIN & SVHC lists



100% compliance with EU guidelines

Environmental, health and safety regulations:

- HYDRON® WS 400 is water-based and biodegradable.
- Refer to the SDS for specific handling precautions and instructions.

Availability:

 HYDRON® WS 400 is available as a concentrate in 1L bottles, 5L and 25L containers and 200L drums.

Storage:

- Store HYDRON® WS 400 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.