



HYDREX[®] WS Aqueous Cleaner

Technical Data Sheet

HYDREX WS is a non-foaming aqueous spray and ultrasonic immersion cleaner designed for ambient or heated stencil and misprint cleaning applications. This proprietary cleaner is based on mixture of modified alcohols.

HYDREX WS is a neutral pH cleaner, formulated to remove a broad range of uncured Surface Mount Device (SMD) adhesives and raw solder pastes from stencils and misprinted circuit assemblies.

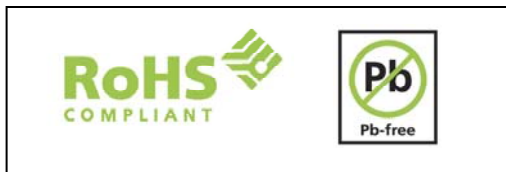
HYDREX WS is a surfactant-free formulation, suitable in non-water rinsing applications and equipment. Residues may be fully removed from stencils and misprinted circuit assemblies in a second reservoir of HYDREX WS.

HYDREX WS is an effective, non-flammable (no flash point) replacement for isopropyl alcohol (IPA) in both open and closed-loop batch stencil cleaning equipment. It is also an effective replacement for IPA in stencil underside wipe cleaning applications.

HYDREX WS is provided as a ready-to-use (RTU) solution, exhibiting low odor, good solvency and high soling loading.

HYDREX WS offers excellent compatibility with many substrates and materials used in stencil and misprint cleaning applications.

HYDREX WS is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



HYDREX is a registered trademark of Petroferm Inc.

FEATURES & BENEFITS

- Non-Flammable
- pH Neutral
- Good Solvency
- High Soil Loading
- Excellent Filterability
- Material Compatibility
- Low Odor
- Does Not Require Water Rinsing
- Does Not Require Heating
- Replaces Isopropyl Alcohol (IPA)
- Surfactant-Free/Non-Residual
- Ready-To-Use (RTU) Formula
- Very Easy Rinsing
- Non-Foaming

PROCESS

Application	Conc. (%)	Temp. °F (°C)
Stencil/Misprint Cleaning Spray-In-Air Ultrasonic	100	100 to 125 (43 to 52)
Underside Wipe Cleaning	100	NA

Rinse: For stencil/misprint cleaning, rinse with a fresh bath of HYDREX WS or deionized water at 80°F to 110°F (27°C to 43°C). For underside wipe cleaning, rinsing is not applicable.

Dry: For stencil/misprint cleaning, dry with ambient or heated forced air. For underside wipe cleaning, vacuum drying is recommended.

SOILS REMOVED

- Uncured SMD Adhesives
- Lead-Free Solder Pastes
- Rosin Solder Pastes
- No-Clean Solder Pastes
- Water-Soluble Solder Pastes
- Epoxy Solder Pastes

PROPERTIES

Appearance.....	Clear liquid
Odor.....	Low
Flash Point.....	None
Specific Gravity (25°C).....	1.00
pH value (100%).....	7.0
Freeze/Thaw Stability.....	Stable
Viscosity (25°C)	Approx. 1.0 cps (in use)
Solubility in Water.....	Complete

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EQUIPMENT

- HYDREX WS is suitable for use in a variety of commercially available cleaning equipment including batch spray-in-air and ultrasonic washers.
- Bath concentration may be monitored by refractive index.
- Companies requiring new cleaning equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

HYDREX WS is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

HYDREX WS is a suitable alternative to substances with high exposure hazards.

Fire Risk

HYDREX WS is a suitable alternative to flammable or combustible materials.

SHELF LIFE

The shelf life for this product is thirty-six (36) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after thirty-six (36) months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP).....	Zero
Significant New Alternatives Program (SNAP).....	*Approved
Hazardous Air Pollutant (HAP).....	No
National Emission Standards for Hazardous Air Pollutants (NESHAPs).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Not regulated

**HYDREX WS components*

DISPOSAL/SAFETY

Disposal: Petroferm recommends contacting your current or local environmental service company for disposal of this product.

Safety: Please see Material Safety Data Sheet for further information.

Storage: HYDREX WS should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: HYDREX WS is available in 40 lb (18 kg) pails and 460 lb (209 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

Petroferm Inc.

3938 Porett Drive • Gurnee, IL 60031 USA

Tel: +1 847-244-3410 • Fax: +1 847-249-6346

www.petroferm.com

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