



Petroferm

Advanced Products for Advanced Cleaning



CleanSafe™ 585: Green Ultrasonic Cleaning

CleanSafe 585

Benefits & Features

- Readily Biodegradable
- VOC-free
- Material Compatibility
- Corrosion Protection
- Hard-Water Stability
- Effective Wetting/Rinsing
- Non-Corrosive
- No Phosphates
- No NPEs/APEs

Substrate Compatibility

- Aluminum
- Copper & Copper Alloys
- Magnesium
- Nickel
- Carbon Steel
- Stainless Steel
- Titanium
- Painted/Sealed Surfaces

Soils Removed

- Buffing Compounds
- Coolants
- Cosmoline
- Drawing Fluids
- Dust
- Fingerprints
- Light Grease
- Lubricating Oils
- Mineral Oils
- Particulate Matter
- Polishing Compounds
- Rust Inhibitors
- Synthetic Oils
- Water-Soluble Oils

Ultrasonic cleaning is an effective method for cleaning soils, especially particulate, from substrates and assemblies with complex geometries. In this technology, ultrasonic activity (cavitation) generates a powerful, micro-scrubbing action through the introduction of high-frequency sound waves in a liquid medium.

The selection of an appropriately formulated cleaning agent is critical in optimizing ultrasonic cleaning; plain water would not be as effective. Typical cleaning agents used for ultrasonic cleaning contain ingredients to increase detergency, reduce surface tension and prevent soil redeposition.



CleanSafe 585, developed by Petroferm Inc., is a next-generation ultrasonic cleaning agent designed to meet both performance requirements and global environmental regulations. Designed specifically to operate in ultrasonic cleaning equipment, CleanSafe 585 is effective in removing a wide range of difficult-to-remove soils including buffing and polishing compounds. It exhibits excellent ma-

terial compatibility and contains a high performance, multi-metal corrosion inhibitor package. CleanSafe 585 is hard-water stable and remains a clear, stable solution at elevated temperatures.

CleanSafe 585 and the Environment

CleanSafe 585 is formulated without nonylphenol (NPEs) ethoxylates, which are used in many cleaning agents as surfactants or wetting agents. When discharged through waste treatment facilities, NPEs and their decomposition products have been reported to have an acute adverse affect on marine wildlife.

CleanSafe 585 does not contain phosphates. When discharged to freshwater lakes and rivers, high levels of phosphates can result in a reduction of oxygen levels leading to fish kills.

CleanSafe 585 does not contain volatile organic compounds (VOCs), which are proven in the formation of smog resulting in harmful health effects.

Operating Conditions

CleanSafe 585 may be used at temperatures between 70°F-180°F (21°C-82°C) and concentrations of 2%-10% for ultrasonic cleaning. Concentrations of 15% may be used for more difficult soils.

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