



## Technical Data Sheet

## CleanSafe™ 686 Aqueous Cleaner

### Product Description

**CleanSafe 686** Aqueous Cleaner is a high performance cleaning agent specifically designed for immersion cleaning processes. It effectively removes difficult soils such as corrosion inhibiting compounds (CICs), drawing and forming compounds, fluorescent penetrants, greases, hydraulic fluids and turbine oils. CleanSafe 686 has been shown to outperform traditional aqueous cleaners in side-by-side testing. It is suitable for use on turbine engines, landing gear, airframe structures as well as metallic and plastic components.

### Features and Benefits

- VOC free
- Phosphate free
- Glycol Free
- Corrosion Inhibition
- Proven Cleaning Ability
- NPE/APE Free
- Safe on Metals, Composites
- Long Bath Life
- Easy Water Rinsing
- No Additives Required

### Properties

Odor	Mild
Flash Point	None
Specific Gravity (25 °C)	1.08
pH Value (10%)	12.3

### Applications

- Component Cleaning
- Prior to Final Assembly
- During Repair and Overhaul
- Prior to Bonding and Sealing
- Prior to Surface Coatings
- During On-Wing Maintenance
- Exterior Fuselage Cleaning
- Prior to Non-Destructive Testing
- Prior to Welding
- Prior to Subsequent Operations
- Maintenance Cleaning
- Tool and Equipment Cleaning

### Soils Removed

#### Specific Soils

- Aeroshell 500 Turbine Oil
- Aeroshell 33 Grease
- Ardrex 985 P14
- Boelube 70106
- Castrol X-52
- Houghton Draw V-2000
- Ionoplus 3000
- Iloform PN 270
- Microcut 26D
- MIL-C-16173e
- Quaker AVR
- Rustillo 4135NF

#### Soil Types

- Buffing Compounds
- Carbonaceous Soils
- Coolants
- Corrosion Inhibiting Compounds
- Cosmoline
- Cutting Oils
- Drawing Fluids
- Fingerprints
- Fluorescent Penetrants
- Greases
- Hydraulic Fluids
- Particulates



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### Equipment

Suitable for use in a variety of commercially available cleaning equipment including immersion and ultrasonic systems.

### Process

Wash Bath Concentration	5-25%
Wash Bath Temperature	140-180 °F (60-82 °C)
DI Water Rinse Temperature	140-180 °F (60-82 °C)

### Environmental/Regulatory

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	Zero
Volatile Organic Compound (VOC)	0 g/L
Hazardous Air Pollutant (HAP)	No
Superfund Amendments and Reauthorization Act (SARA)	Not Regulated
Hazardous Air Pollutants (NESHAPs)	Not Regulated
Resource Conservation and Recovery Act (RCRA)	Not Regulated
Nonylphenol Ethoxylates (NPEs)	None
Alkylphenol Ethoxylates (APEs)	None
Phosphates	None

### Disposal/Safety

#### Disposal

Vantage recommends contacting your current or local environmental service company for proper disposal.

#### Safety

Please see Safety Data Sheet for further information.

### Packaging

Available in 45 lb (20 kg) pails and 495 lb (225 kg) drums.

### Shelf Life

36 months when stored in original, sealed container above 50 °F (10 °C). Protect product from freezing.



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ISO 9001:2008



**RoHS**  
Compliant



**LEAD FREE**



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