

# **Technical Data Sheet**

CleanSafe™ 686

## **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**

•	VC	C	fr	ee

- 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**

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- 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
- Ardrox 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)

Global Warming Potential (GWP)

Volatile Organic Compound (VOC)

Hazardous Air Pollutant (HAP)

Zero

O g/L

Superfund Amendments and Reauthorization Act (SARA)

Hazardous Air Pollutants (NESHAPs)

Resource Conservation and Recovery Act (RCRA)

Not Regulated

Not Regulated

Nonylphenol Ethoxylates (NPEs)

Alkylphenol Ethoxylates (APEs)

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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