



# CRYSTAL-CLEAR

*ANTI-WEAR, RUST, AND OXIDATION STABLE SYNTHETIC FLUID*

## BEYOND SYNTHETIC®

Crystal-Clear is an anti-wear, rust and oxidation stable, 100% synthetic fluid. It is a clean, pure, non-reactive synthetic fluid that meets all of the FDA requirements of a white mineral oil plus the superior lubrication of a synthetic oil. Crystal-Clear's high viscosity index, high thermal stability, low coefficient of friction and high specific heat index enable it to outperform white mineral oils over an extremely wide temperature range.

## PERFORMANCE ADVANTAGES

### **Environmentally Safe**

Royal Purple Crystal-Clear is not listed on the EPA's VHAP (volatile hazardous air pollutants)

### **Sanctioned by the EPA, NSF**

Crystal-Clear is the first synthetic white oil sanctioned under the FDA's CFR Title 21 Sections 178.3620(a) & (b); 172.878; 175.105; 176.200. It is also sanctioned under 210; 177.2260 and 2800; and 178.3570 and 3910. Crystal Clear FDA is NSF certified for H1 service.

### **Minimal Disposal Problems**

Crystal-Clear can be recycled, burned or disposed the same as mineral oil.

### **Very Low Moisture Content**

Crystal-Clear has a low moisture content to increase bearing and oil life.

### **Highest Purity**

Crystal-Clear contains no impurities such as sulfur, vanadium, amines, etc., that can be harmful or reactive to process fluids or poison the catalyst if it enters a process stream.

### **Remains Dry**

Crystal-Clear separates rapidly and completely from water.

### **Excellent Heat Transfer Properties**

Crystal-Clear fluids help keep equipment running cool

### **Multi-Viscosity Oil with Excellent Low Temperature Fluidity**

Crystal-Clear enables one oil to be used throughout the year in colder climates.

### **High Temperature Stability**

Crystal-Clear provides maximum stability at high temperatures.

### **High Flash Point**

Crystal-Clear has a high flash point for maximum safety.

### **Compatible with Most Fluids**

Crystal-Clear can be mixed with mineral oils, PAOs and diester fluids but should not be mixed with glycol or silicone synthetics.

### Wide Seal Compatibility Range

Crystal-Clear fluids are compatible with Viton®, neoprene, Buna N (except high ACN), silicone, polyurethane ester, epichlorahydrin, polysulfide, ethylene / acrylic, polycrylate, flourosilicone, propylene oxide, chlorosulfonated polyethylene, chlorinated polyethylene, Kalrez®, Nordel®, fluoroelastomer, nitrile and others. It is not for use with EPDM or EPR elastomers. Victon®, Kalrez® and Nordel® are registered trademarks of E.I. DuPont.

		ISO Grade
Typical Properties*	Method	40X
Density, lbs/gal	D4052	6.99
Viscosity	D445	
cSt @ 40°C		96.2
cSt @ 100°C		14.84
Viscosity Index	D2270	161
Copper Corrosion	D130	1A
Cone Penetration Test, mm	D2596	355-385
Pour Point, °F/°C	D97	-44/-42
Foam Test, Seq III	D892	0/0/0
Total Acid Number	D664	0.3
Flash Point, °F/°C	D92	460/238

*\*Properties are typical and may vary.*