



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.*