



CRYSTAL-CLEAR®

SYNTHETIC WHITE COMPRESSOR OIL WITH PUROLEC™

Crystal-Clear® is a pure, nonreactive synthetic white compressor oil that provides excellent anti-wear protection and high performance across a wide temperature range. It delivers excellent rust and corrosion protection and will not poison catalysts downstream of the compressor. It meets the requirements of white mineral oils while providing the superior lubrication and service life of a synthetic oil.

Crystal-Clear resists dilution by process gases, helping prevent compressor and packing gland wear. It is a superior lubricant for compressors handling inert and reactive gases such as hydrogen, hydrogen chloride, sulfur dioxide, nitrogen, carbon monoxide, carbon dioxide and helium. It also excels in compressors and hyper compressors handling hydrocarbon gases such as ethylene, methane, ethane, acetylene, propylene, and LPG (propane/butane mixtures).

Crystal-Clear's formulation combines premium synthetic base oils with proprietary Purolec™ additive technology to deliver outstanding anti-wear performance, rust and corrosion protection, and resistance to oxidation and heat degradation.

Crystal-Clear's high viscosity index, thermal stability, low coefficient of friction, and high specific heat capacity enable it to outperform white mineral oils over an extremely wide temperature range. It is recommended to replace white mineral oil in applications where improved service life and equipment reliability are required. Using Crystal-Clear saves money, minimizes inventory, reduces maintenance, improves equipment efficiency, and extends equipment life.

Crystal-Clear is an undyed product.



Nonfood Compounds
H1

PROPRIETARY ADDITIVE TECHNOLOGY - PUROLEC™

Purolec™ stable additive technology reduces wear, provides outstanding rust and corrosion protection, and fortifies the oil against heat degradation without compromising food safety. It is non-toxic, non-allergenic and meets NSF H1, Halal and Kosher requirements for food and pharmaceutical applications.

PERFORMANCE ADVANTAGES

HIGHEST PURITY – Contains no impurities such as vanadium and amines, and will not harm process fluids or catalysts.

VERY LOW REACTIVITY – Extremely inert formula will not react with other hydrocarbon oils and esters or with most process fluids.

EXCEPTIONAL ANTI-WEAR PROTECTION – Proprietary technology provides superior anti-scuffing, load-carrying capability and wear-preventive properties.

EXCELLENT THERMAL PROPERTIES – High thermal conductivity and heat capacity help keep equipment running cool.

OUTSTANDING LOW-TEMPERATURE FLUIDITY – Suitable for year-round service, including cold-weather operation.

EXCEPTIONALLY DRY – Less than 70 ppm (< 0.007%) water at manufacture (Karl Fischer Method) and demulsifies readily from water.

continued



CRYSTAL-CLEAR®

WEAR, CORROSION AND OXIDATIVELY STABLE SYNTHETIC FLUID

PERFORMANCE ADVANTAGES *CONTINUED*

WIDE SEAL COMPATIBILITY RANGE -

Compatible with common seal materials such as neoprene, Buna-N, silicone, fluoroelastomers and perfluoroelastomers, e.g., Viton® and Kalrez®. Not recommended for use with EPDM or EPR elastomers.

ENVIRONMENTALLY SAFE - Crystal-Clear is not listed on the EPA's Volatile Hazardous Air Pollutants (VHAP) list.

TYPICAL APPLICATIONS & INDUSTRIES

- Hyper compressors - multi-stage
- Food processing
- Gas processing

CERTIFICATIONS

- NSF H1
- Halal
- Kosher

TECHNICAL DATA

Color	Colorless
Relative Density @ 60°F/60°F, ASTM D1298	0.840
Viscosity @ 100°C cSt, ASTM D445	14
Viscosity @ 40°C cSt, ASTM D445	100
Viscosity Index ASTM D2270	142
Flash Point °C (°F), ASTM D92	238 (460)
Pour Point °C (°F), ASTM D97	-42 (-44)
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1a
Acid Number mg KOH/g, ASTM D664	0.3
Emulsion Characteristics @ 82°C, oil/water/emulsion-minutes, ASTM D1401	42/38/0-10
Foaming Characteristics 3 sequences @24°C, 93.5°C, 24°C: tendency/stability (ml)-time to break (sec), ASTM D892	0/0-0, 0/0-0, 0/0-0

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