

BARRIER FLUID GT™

Buffer / Barrier Fluid for Double and Tandem Mechanical Seals



Beyond Synthetic™

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Barrier Fluid GT™ is recommended for use at elevated temperatures where nitrogen purge is not an option and when FDA purity is not required.

Barrier Fluid GT™ is a pure, non-reactive, synthetic fluid that provides superior lubrication and cooling for double and tandem mechanical seals.

Barrier Fluid GT™ provides very stable seal performance over an extremely wide temperature range, satisfying most seal service requirements. Barrier Fluid GT™ is extremely clean and has excellent low temperature fluidity and heat transfer properties.

Performance Advantages:

- **Environmentally Safe**

Royal Purple® Barrier Fluids are not listed on the EPA's VHAP (volatile hazardous air pollutants) or VOC (volatile organic compounds) lists.

- **Minimal Disposal Problems**

Royal Purple® Barrier Fluids can be recycled, burned or disposed the same as mineral oil.

- **Very Low Moisture Content**

Royal Purple® Barrier fluids have a low moisture content to prevent seal problems or catalyst poisoning where applicable.

- **Highest Purity**

Barrier Fluid FDA® 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.

- **Excellent Heat Transfer Properties**

Royal Purple® Barrier Fluids are 25 to 30 percent better than mineral oil to keep seals cool.

- **Excellent Low Temperature Fluidity**

Royal Purple® Barrier Fluids have excellent low temperature fluidity for cryogenic and cold weather service.

- **Uniform Molecular Size**

The no light ends, plus excellent thermal stability of Royal Purple® Barrier Fluids provide maximum protection against blistering of carbon seal faces caused by fluid volatility.

- **High Flash Point**

Royal Purple® Barrier Fluids have a high flash point for maximum safety.

- **Compatible with Most Fluids**

Royal Purple® Barrier Fluids can be mixed with mineral oils, PAOs and diester fluids but should not be mixed with glycol or silicone synthetics.

- **Wide Seal Compatibility Range**

Royal Purple® Barrier Fluids are compatible with Viton®, neoprene, Buna N (except high ACN), silicone, polyurethane ester, epichlorohydrin, polysulfide, ethylene / acrylic, polycrylate, fluorosilicone, propylene oxide, chlorosulfonated polyethylene, chlorinated polyethylene, Kalrez®, Nordel®, fluoroelastomer, nitrile and others. It is not for use with EPDM or EPR elastomers. Viton®, Kalrez® and Nordel® are registered trademarks of E.I. DuPont.

Typical Properties *	Barrier Fluid Grade				
	22**	34	56	78	910
Vapor Pressure mmHG @ 100°F	0.0060	0.0001	0.0005	0.0003	0.0001
Pour Point °F	-65	-85	-75	-58	-50
Flash Point °F	335	445	462	482	505
Fire Point °F	350	485	510	542	555
Boiling Point °F	538	655	718	760	755
Autoignition °F	>420	>600	>600	>600	>600
Specific Gravity	0.799	0.816	0.824	0.833	0.838

*Properties are typical and may vary

** Barrier Fluid 22 is 80 percent biodegradable within 28 days per industry standard CEC L33-A-94.