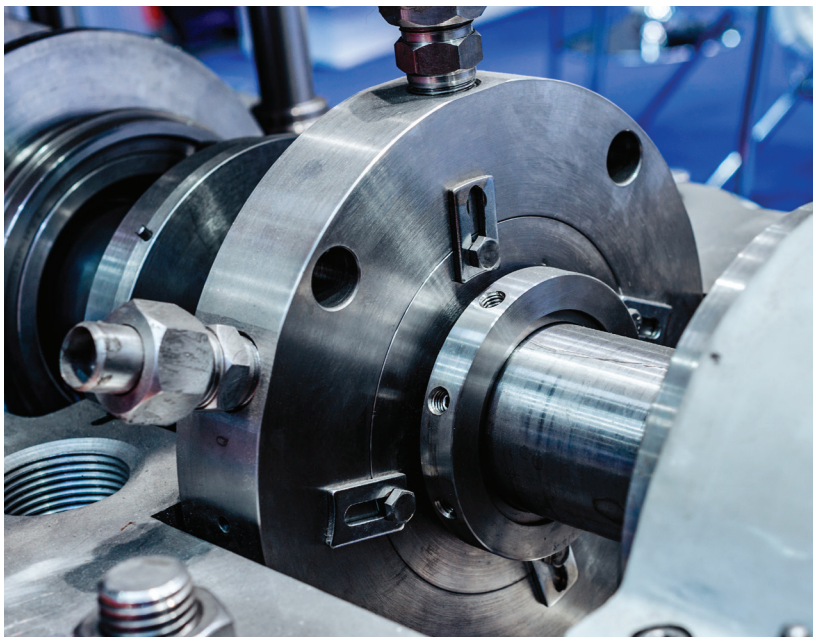
BARRIER FLUID GT®

SYNTHETIC BARRIER FLUID FOR DUAL MECHANICAL SEALS

Barrier Fluid GT® is a nonreactive synthetic barrier fluid with very low moisture content that provides superior lubrication and cooling for dual mechanical seals, including tandem and double configurations. It helps extend seal life for increased uptime and lower cost of ownership. Barrier Fluid GT enables stable seal performance over a wide temperature range, satisfying most seal service requirements and allowing fluid consolidation.

It has excellent low temperature fluidity, heat transfer properties and thermal stability, and is compatible with a wide variety of elastomers and other fluids. It is especially recommended for use at elevated temperatures where nitrogen purge is not an option and food-grade purity is not required.

Barrier Fluid GT is undyed*, environmentally safe, and recyclable. It is available in five different viscosities.



*GT 34 is available in undyed (amber) and dyed (purple). All other grades are undyed.

PERFORMANCE & OTHER ADVANTAGES

EXCELLENT HEAT TRANSFER PROPERTIES – Keeps seals cool with synthetic fluid providing 10 to 30 percent better heat transfer than mineral oil.

EXCELLENT LOW TEMPERATURE FLUIDITY – Ensures reliable cold weather service.

THERMAL STABILITY – Provides maximum protection against blistering of carbon seal faces, ensuring excellent deposit control.

WIDE TEMPERATURE RANGE – Satisfies most seal service requirements, which minimizes the need for multiple products and helps maximize productivity and storage space.

NONREACTIVE (INERT) BARRIER FLUID – Does not react with most hydrocarbon gases, aqueous acids and bases, and will not poison catalyst systems.

HIGHEST PURITY – Contains no impurities, such as vanadium, amines, moisture or particulates. This oil has been manufactured to meet or exceed a typical ISO 4406 cleanliness code of 14/13/11.

VERY LOW MOISTURE CONTENT – Prevents seal erosion problems that can result in catalyst poisoning.

ELASTOMER COMPATIBILITY – Is compatible with neoprene, Buna N (except high ACN), silicone, polyurethane ester, epichlorahydrin, polysulfide, ethlene / acrylic, polycrylate, flourosilicone, propylene oxide, chlorosulfonated polyethylene, chlorinated polyethylene, fluroelastomer, nitrile and other elastomers. It is not for use with EPDM or EPR elastomers, unless named above.

FLUID COMPATIBILITY – Is compatible with mineral oils, PAOs and diester fluids, but should not be mixed with glycol or silicone synthetics.

ENVIRONMENTALLY SAFE – Can be recycled and contains no harmful ingredients or EPA-listed Volatile Hazardous Air Pollutants or Volatile Organic Compounds.

BARRIER FLUID GT®

SYNTHETIC BARRIER FLUID FOR DUAL MECHANICAL SEALS

TYPICAL APPLICATIONS & INDUSTRIES

- Dual mechanical seals, including tandem and double configurations, used in pumps, mixers and other equipment handling hazardous or volatile fluids
- Chemical processing
- Oil and gas (midstream, petrochemical plants and refineries)
- Power generation

TECHNICAL DATA

Product Identifier	22	34	56	78	910
Color	Amber	Amber or Purple*	Amber	Amber	Amber
Relative Density @ 60°F/60°F, ASTM D1298	0.799	0.821	0.828	0.835	0.837
Viscosity @ 100°C cSt, ASTM D445	1.7	4.2	5.9	7.8	10.2
Viscosity @ 40°C cSt, ASTM D445	5.2	18.7	30.4	47.2	68.0
Viscosity Index ASTM D2270	--	128	140	133	135
Auto Ignition °C (°F), ASTM E659	220 (428)	365 (689)	396 (744)	399 (750)	--
Flash Point °C (°F), ASTM D92	166 (330)	229 (445)	241 (465)	263 (505)	266 (511)
Pour Point °C (°F), ASTM D97	-90 (-130)	-63(-81)	-63 (-81)	-63 (-81)	-60 (-76)
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	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0

*GT 34 is available in undyed (amber) and dyed (purple). All other grades are undyed.

Rev. 9/3/2025

1919 E. Tulsa • Wichita, KS 67216
RPinfo@royalpurpleind.com