



BARRIER FLUID FDA®

FOOD GRADE BARRIER FLUID FOR DUAL MECHANICAL SEALS

Barrier Fluid FDA® is a pure, nonreactive synthetic barrier fluid with very low moisture content that provides superior lubrication and cooling for dual mechanical seals, including tandem and double configurations, and is safe for use in food and pharmaceutical manufacturing equipment. It helps extend seal life for increased uptime and lower cost of ownership. Barrier Fluid FDA 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, thermal stability, and is compatible with a wide variety of elastomers and other fluids.

It is undyed, environmentally safe, and recyclable. Barrier Fluid FDA is available in five different viscosities, all of which are NSF H1 registered, and Kosher and Halal approved.



Nonfood Compounds H1

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.

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

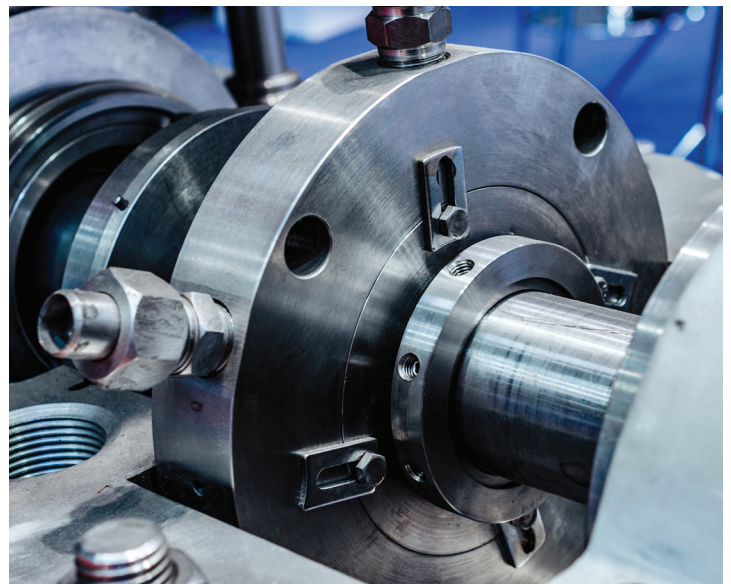
VERY LOW MOISTURE CONTENT – Prevents seal erosion problems that can result in or catalyst poisoning.

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

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

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

FOOD GRADE – Is NSF H1 registered for use in equipment where incidental food contact may occur and is Kosher and Halal approved.





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TYPICAL APPLICATIONS & INDUSTRIES

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

CERTIFICATIONS

- NSF H1
- Halal
- Kosher

TECHNICAL DATA

Product Identifier	22	34	56	78	910
Color	Water White	Water White	Water White	Water White	Water White
Relative Density @ 60°F/60°F, ASTM D1298	0.800	0.820	0.830	0.830	0.836
Viscosity @ 100°C cSt, ASTM D445	1.7	4.13	5.84	7.75	10.2
Viscosity @ 40°C cSt, ASTM D445	5.1	18.4	30	46.7	68
Viscosity Index ASTM D2270	--	129	142	134	135
Initial Boiling Point °C (°F), ASTM D7500	297 (567)	336 (637)	382 (720)	453 (847)	432 (810)
Auto Ignition °C (°F), ASTM E659	>300 (572)	365 (689)	396 (745)	399 (750)	415 (779)
Flash Point °C (°F), ASTM D92	166 (331)	229 (444)	241 (466)	263 (505)	278 (530)
Pour Point °C (°F), ASTM D97	-90 (-130)	-66 (-87)	-60 (-76)	-63 (-81)	-54 (-65)
Particle Count <4um, ISO 4406	14	14	14	14	14
Particle Count <6um, ISO 4406	13	13	13	13	13
Particle Count <14um, ISO 4406	11	11	11	11	11