



Pure Synthetic Mechanical Seal Barrier Fluids

DS-4614-5-F, DS-4614-32-F

Product Description

DS-4614-F synthetic fluids are long-life food grade lubricants specially processed for use as barrier and buffer fluids for mechanical seals on rotating equipment requiring excellent chemical stability and compatibility.

DS-4614-F fluids are recommended for systems operating in high and low ambient temperature environments.

DS-4614-F synthetic barrier fluids meet 21 CFR 178.3570 requirements for lubricants with the possibility of incidental food contact. These are authorized by the USDA for use in federally inspected meat and poultry plants (H-1). All are nontoxic, nonhazardous, and contain no heavy metals.

Typical Applications

- Barrier/buffer fluids for high and low temperature doubles and tandem mechanical seal systems.
- Dura Circulators and rotary screw process gas compressors (grade 32-F only).

Typical Properties*

Viscosity	5-F	32-F
@ 40°C cSt per ASTM D445	5.1	31.4
@ 100°C cSt	1.7	6.0
@ 100°F SUS	43.7	161
@ 210°F SUS	32.0	46.0
Viscosity Index, per ASTMD2270	122	140
Flash Point, C.O.C., °F (°C) per ASTM D92	320 (160)	464 (240)
Fire Point, C.O.C., °F (°C) per ASTM D92	345 (268)	514 (286)
Pour Point, °F (°C) per ASTM D97	-92 (-69)	-87 (-66)
Density lb./gal. 60°F (15°C)	6.65	6.88
Specific Gravity @ 72°F per ASTM D1298	0.798	0.826

*These values are not intended for use in preparing specifications.

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