Product information

Barrier Fluid Series

Synthetic barrier fluids

Your benefits at a glance

- Excellent low temperature fluidity
- High temperature stability property
- Ability to efficiently transfer heat

Your requirements - our solution

Summit Barrier Fluid Series lubricants are formulated from the highest quality synthetic base stocks and fortified with additives to provide a non-reactive, oxidatively stable fluid for seal service over an extremely wide temperature range. These fluids have excellent low temperature fluidity and high temperature stability properties, as well as the ability to efficiently transfer heat and keep the seal face cool. Summit´s Barrier Fluid Series lubricants do not contain components that are known catalyst poisons, and are compatible with most commonly used seal materials. Barrier Fluid 5 is environmentally safe and readily biodegradable according to OECD 301 B. Barrier Fluid Series products are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact) for use in food plants. Do not add directly to food. Summit is an ISO 21469 certified facility.

Application

Barrier fluid/seals

Application notes

Do not add directly to food.

Material safety data sheets

Material safety data sheets can be requested via our website https://www.klsummit.com. You may also obtain them through your contact person at Summit Lubrication.

Characteristics	BARRIER FLUID 5	BARRIER FLUID 17	BARRIER FLUID 30	BARRIER FLUID 46
Article number	340011	340010	340272	340273
NSF H1 registration number	139589	143335	143336	143337
Demulsifying capacity	40/40/0 (10) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)
Density, 20°C	approx. 0.796 g/cm³	-	approx. 0.826 g/cm³	approx. 0.830 g/cm³
Density, DIN 51757, 20°C	-	approx. 0.82 g/cm³	-	-
Flash point, ASTM D92, Cleveland open cup	≥ 130 °C	≥ 200 °C	≥ 220 °C	≥ 240 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 1.7 mm²/s	approx. 3.9 mm²/s	approx. 5.9 mm²/s	approx. 7.6 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 5 mm²/s	approx. 17 mm²/s	approx. 31 mm²/s	approx. 46 mm²/s
Viscosity index, ASTM D2270	-	approx. 120	approx. 140	approx. 130
Copper corrosion, ASTM D130, 3 h, 100°C	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree	1 - 100 - 3 corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -73 °C	approx. -74 °C	approx. -68 °C	approx. -61 °C

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Mineral Oils associated with, MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Component of recipe	Component of recipe	Component of recipe	Component of recipe
Mineral Oils associated with, MOSH (Mineral Oil Saturated Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Component of recipe	Component of recipe	Component of recipe	Component of recipe
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	36 months	36 months	36 months

Characteristics	BARRIER FLUID 68
Article number	340274
NSF H1 registration number	143338
Demulsifying capacity	40/40/0 (10) (min)
Density, 20°C	approx. 0.833 g/cm³
Density, DIN 51757, 20°C	-
Flash point, ASTM D92, Cleveland open cup	≥ 250 °C
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 10.5 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 69 mm²/s
Viscosity index, ASTM D2270	approx. 139
Copper corrosion, ASTM D130, 3 h, 100°C	1 - 100 - 3 corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	≤ -40 °C
Mineral Oils associated with, MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Component of recipe
Mineral Oils associated with, MOSH (Mineral Oil Saturated Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	Component of recipe

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Characteristics	BARRIER FLUID 68
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

Summit Lubrication

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

Summit Lubrication a brand of Klüber Lubrication NA LP /
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