FG Elite Series (Food Grade)

Synthetic air compressor lubricant

Your benefits at a glance

- Provides extended lubricant life
- Reduces deposit and sludge formation
- Superior protection against rust, wear and corrosion

Your requirements - our solution

Summit FG Elite Series lubricants are specially designed for rotary screw, vane, reciprocating air compressors and vacuum pumps used in the food service industry. These lubricants use 100% multisynthetic base oils in combination with performance driven additives to offer extended lubricant life. Field tests have shown these lubricants will last between 8,000 and 10,000 hours depending on operating conditions. In addition, this innovative chemistry offers increased solvency, which significantly reduces deposit and sludge formation. FG Elite Series lubricants offer superior protection against rust, wear and corrosion.

Summit FG Elite Series lubricants meet USDA 1998 (H1) guidelines (lubricants with incidental food contact) and are manufactured in an ISO 21469 certified facility. FG Elite Series lubricants have the same software compatibility as Summit SH® Series lubricants.

Application

FG Elite-32 is designed for use in air compressors or vacuum pump applications requiring an ISO-32 lubricant.

FG Elite-46 and FG Elite-68 are designed for air compressor and vacuum pump applications requiring an ISO-46 or ISO-68 lubricant.

FG Elite-100 is designed for use in air compressors and vacuum pump applications requiring an ISO-100 lubricant.

FG Elite-150 is designed for general lubrication and air compressors requiring an ISO-150 lubricant.

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	FG Elite-32	FG Elite-46	FG Elite-68	FG Elite-100
Article number	340327	340328	340329	340330
NSF H1 registration number	146703	146704	146705	146706
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 54°C	40-40-0 (15) ml (min)	40-40-0 (15) ml (min)	40-40-0 (25) ml (min)	-
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	-	-	-	40-40-0 (15) ml (min)
Density, 20°C	approx. 0.843 g/cm³	approx. 0.846 g/cm³	approx. 0.849 g/cm³	approx. 0.853 g/cm³
Flash point, ASTM D92, Cleveland open cup	≥ 220 °C	≥ 230 °C	≥ 240 °C	≥ 240 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	32	46	68	100
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 5.9 mm²/s	approx. 7.5 mm²/s	approx. 10.3 mm²/s	approx. 14.3 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 33 mm²/s	approx. 46 mm²/s	approx. 69 mm²/s	approx. 106 mm²/s
Viscosity index, ASTM D2270	approx. 127	approx. 131	approx. 136	approx. 138

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Characteristics	FG Elite-32	FG Elite-46	FG Elite-68	FG Elite-100
Copper corrosion, ASTM D130, 24 h, 100°C	1 - 100 - 24 corrosion degree	1 - 100 - 24 corrosion degree	1 - 100 - 24 corrosion degree	1 - 100 - 24 corrosion degree
Steel corrosion, DIN ISO 7120 / ASTM D665, method A, 24 h, 60°C	rust-free	rust-free	rust-free	rust-free
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -61 °C	approx. -58 °C	approx. -53 °C	approx. -49 °C
Four-ball tester: wear characteristics, ASTM D4172, 60 min, 75°C	0.40 mm	0.40 mm	0.40 mm	0.40 mm
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.	36 months	36 months	36 months	36 months

Characteristics	FG Elite-150
Article number	340331
NSF H1 registration number	146707
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 54°C	-
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	40-40-0 (15) ml (min)
Density, 20°C	approx. 0.856 g/cm³
Flash point, ASTM D92, Cleveland open cup	≥ 240 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	150
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 19.0 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 150 mm²/s
Viscosity index, ASTM D2270	approx. 140
Copper corrosion, ASTM D130, 24 h, 100°C	1 - 100 - 24 corrosion degree
Steel corrosion, DIN ISO 7120 / ASTM D665, method A, 24 h, 60°C	rust-free

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Characteristics	FG Elite-150
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -48 °C
Four-ball tester: wear characteristics, ASTM D4172, 60 min, 75°C	0.40 mm
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
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.

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