

# SHV Series

Synthetic vacuum pumps



## Your benefits at a glance

- Excellent water separation
- Provide protection against wear, rust and corrosion

## Your requirements - our solution

The Summit SHV Series is formulated from vacuum distilled ultra-pure synthetic hydrocarbon base stock to provide an extremely low vapor pressure vacuum pump lubricant. These non-foaming fluids have excellent water separation and provide protection against wear, rust and corrosion. The SHV Series is an extended life lubricant designed to function in applications subject to severe temperature and environmental conditions.

## Application notes

The Summit SHV Series are compatible with commonly used seal and gasket materials in vacuum pump service.

## 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	SHV-15	SHV-22	SHV-32	SHV-46
Article number	340159	340160	340161	340162
Demulsifying capacity	40/40/0 (10) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	-	-	-	-
Density	0.814 g/cm <sup>3</sup>	0.819 g/cm <sup>3</sup>	0.824 g/cm <sup>3</sup>	0.829 g/cm <sup>3</sup>
Density, 20°C	-	-	-	-
Flash point	185 °C	185 °C	185 °C	185 °C
Flash point, ASTM D92, Cleveland open cup	-	-	-	-
Foam test, ISO 6247 / ASTM D892, 24°C, sequence I	-	-	-	-
Foam test, ISO 6247 / ASTM D892, 24°C, sequence III	-	-	-	-
Foam test, ISO 6247 / ASTM D892, 93.5°C, sequence II	-	-	-	-
Ignition Point	377 °C	382 °C	387 °C	393 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	-	-	-	-
Kinematic viscosity, 100°C	3.5 mm <sup>2</sup> /s	4.5 mm <sup>2</sup> /s	5.7 mm <sup>2</sup> /s	7.3 mm <sup>2</sup> /s
Kinematic viscosity, 40°C	15.2 mm <sup>2</sup> /s	21.2 mm <sup>2</sup> /s	29.9 mm <sup>2</sup> /s	43.2 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	-	-	-	-
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	-	-	-	-

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Characteristics	SHV-15	SHV-22	SHV-32	SHV-46
Viscosity index	113	129	134	133
Viscosity index, ASTM D2270	-	-	-	-
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree
Copper corrosion, ASTM D130, 24 h, 100°C	-	-	-	-
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	-	-	-	-
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-57 °C	-62 °C	-62 °C	-39 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months	60 months	60 months

Characteristics	SHV-68	SHV-100
Article number	340163	340158
Demulsifying capacity	40/40/0 (10) (min)	-
Demulsifying capacity, DIN ISO 6614 /ASTM D1401, 82°C	-	40-40-0 (15) ml (min)
Density	0.832 g/cm <sup>3</sup>	-
Density, 20°C	-	approx. 0.860 g/cm <sup>3</sup>
Flash point	185 °C	-
Flash point, ASTM D92, Cleveland open cup	-	≥ 240 °C
Foam test, ISO 6247 / ASTM D892, 24°C, sequence I	-	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 24°C, sequence II	-	approx. 0/0 ml
Foam test, ISO 6247 / ASTM D892, 93.5°C, sequence II	-	approx. 0/0 ml
Ignition Point	396 °C	approx. 404 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	-	100
Kinematic viscosity, 100°C	9.6 mm <sup>2</sup> /s	-
Kinematic viscosity, 40°C	63.7 mm <sup>2</sup> /s	-
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	-	approx. 13.3 mm <sup>2</sup> /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	-	approx. 99 mm <sup>2</sup> /s
Viscosity index	132	-

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Characteristics	SHV-68	SHV-100
Viscosity index, ASTM D2270	-	approx. 133
Copper corrosion	1 - - corrosion degree	-
Copper corrosion, ASTM D130, 24 h, 100°C	-	1 - 100 - 24 corrosion degree
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	-	approx. -51 °C
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-42 °C	-
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

## 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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