

# LCG Series

Synthetic compressor oils for acidic and reactive gases such as landfill and biogases.



## Your benefits at a glance

- Especially for the lubrication of screw-type compressors for natural gas, treated and untreated biogas
- Effective corrosion protection also with sour gas (hydrogen sulphide) or CO<sub>2</sub> mixtures
- Resistant to hydrolysis
- No residue formation caused by reaction with process gas
- Longer compressor life and more reliable performance
- Effective corrosion protection of oil-wetted surfaces

## Your requirements - our solution

Summit LCG Series are specially formulated compressor lubricants designed to be inert to most reactive and corrosive gases encountered in landfills, refineries, EOR and chemical process plants. LCG Series is based on 100% pure synthetic PAO. It's extremely low vapor pressure results in minimal carryover past the separator. It does not contain sulfur or other impurities associated with petroleum based products that might react with the acids, chlorinated compounds or sour gases found in various applications. PAOs are fully saturated compounds and do not contain the alkenes or aromatics found in group I, II or even the group III mineral oils touted as being "pure". LCG Series is ester free and not subject to hydrolysis issues encountered with most esters when used in acidic environments. LCG Series is suitable for use in certain

chloride containing environments where the use of mineral oil, ester and synthetic polyglycols (PAGs) are not permitted. Lubricants that are reactive with a gas stream may form by-products that are harmful to equipment or the environment. Solids may form and cause fouling or plugging issues in certain applications.

## Application

Summit LCG Series will protect oil wetted parts against corrosive effects of common acids and water. It is engineered with superior technology to inhibit the effects of sour gases such as hydrogen sulfide or carbon dioxide on metal surfaces found within the oil wetted parts of a compressor.

Summit LCG Series is designed to result in longer fluid and equipment life for rotating compressors in corrosive and reactive environments. Please consult with a Summit lubrication expert about the suitability of LCG Series in these types of applications.

## 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	LCG-32	LCG-68	LCG-100	LCG-150
Article number	340208	340287	340207	340369
Density	0.825 g/cm <sup>3</sup>	0.835 g/cm <sup>3</sup>	0.84 g/cm <sup>3</sup>	0.9 g/cm <sup>3</sup>
Flash point	235 °C	250 °C	260 °C	260 °C
Kinematic viscosity, 100°C	6.0 mm <sup>2</sup> /s	10.8 mm <sup>2</sup> /s	13.9 mm <sup>2</sup> /s	20.0 mm <sup>2</sup> /s
Kinematic viscosity, 40°C	32 mm <sup>2</sup> /s	70 mm <sup>2</sup> /s	97 mm <sup>2</sup> /s	159 mm <sup>2</sup> /s
Viscosity index	136	146	146	146
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-60 °C	-40 °C	-40 °C	-45 °C
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

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### 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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