

May 9, 2022

Klüber Lubrication NA LP • 9010 CR 2120 Tyler, Texas 75707 • Phone 903.534.8021 • sales@klsummit.com

Product Data Sheet

NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability.

SYNTHETIC NATURAL GAS COMPRESSOR

LCG Series

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 contains no added siloxanes for compatibility in siloxane sensitive processes. 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, esters or synthetic polyglycols (PAGs) are not permitted. Lubricants that are re-active 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.

Summit LCG Series will protect oil wetted parts against the 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.

Physical Properties

PRODUCTS	LCG-68	LCG-100	LCG-150
ISO Grade	68	100	150
Viscosity			
@ 40°C, cSt	69.4	96.8	158.9
@ 100°C, cSt	10.8	13.9	20.0
@ 100°F, SUS	353	510	820
@ 210°F, SUS	63	75	101
Viscosity Index	146	146	146
Pour Point, °F (°C)	-40(-40)	-40(-40)	-49(-45)
Density, g/ml, 60°F			
100°F	0.8334	0.8377	0.8458
185°F	0.8235	0.8264	0.8288
Flash Point, °F (°C)	510(266)	530(277)	580(304)
Fire Point, °F (°C)	570(299)	580(304)	600(316)
Vapor Pressure, mmHg (torr)			
100°F	0.0001	0.0001	0.0001
200°F	0.0004	0.0003	0.0002
300°F	0.0015	0.0013	0.0010
Molecular Weight	765	895	1076

Shelf Life:

Product shelf life is 5 years from the date of manufacture, after which the product should be recertified prior to use.

THERMAL CHARACTERISTICS:

Specific Heat	Thermal Conductivity
Cal/g-°C	BTU hr ⁻¹ ft ⁻¹ F ⁻¹
167°F = 0.544	@100°F = 0.089
212°C = 0.565	@200°F = 0.088
	@300°F = 0.087

