Product Data Sheet

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P.O. Box 131359 • Tyler, CR 2120, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

SYNTHETIC NATURAL GAS COMPRESSOR

LCG Series

Summit LCG Series *are specially formulated compressor lubricants designed to be inert to 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, esters or 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.*

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 Industrial Products 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	99.3	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	142	146
Pour Point, °F (°C)	-40(-40)	-40(-40)	-49(-45)
Density, g/ml, 60°F	0.8371	0.8381	0.8458
100°F	0.8235	0.8264	0.8288
185°F	0.7931	0.7958	0.8035
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

THERMAL CHARACTERISTICS:

Specific Heat	Thermal Conductivity
Cal/g-ºC	BTU hr^{-1} ft^{-1} F^{-1}
167ºF = 0.544	@100ºF = 0.089
212ºC = 0.565	@200ºF = 0.088
	@300ºF = 0.087

SUMMIT® INDUSTRIAL PRODUCTS