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# 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 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
ISO Grade	68	100
Viscosity		
@ 40°C, cSt	69.4	99.3
@ 100°C, cSt	10.8	13.9
@ 100°F, SUS	353	510
@ 210°F, SUS	63	75
Viscosity Index	146	142
Pour Point, °F (°C)	-40 (-40)	-40 (-40)
Density, g/ml, 60°F	0.8371	0.8381
100°F	0.8235	0.8264
185°F	0.7931	0.7958
Flash Point, °F (°C)	510 (266)	530 (277)
Fire Point, °F (°C)	570 (299)	580 (304)
Vapor Pressure, mmHg (torr)		
100°F	0.0001	0.0001
200°F	0.0004	0.0003
300°F	0.0015	0.0013
Molecular Weight	765	895

#### THERMAL CHARACTERISTICS:

##### Specific Heat

Cal/g-°C  
 167°F = 0.544  
 212°C = 0.565

##### Thermal Conductivity

BTU hr<sup>-1</sup> ft<sup>-1</sup> F<sup>-1</sup>  
 @100°F = 0.089  
 @200°F = 0.088  
 @300°F = 0.087