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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. Product typical properties in this publication are current as of May 13, 2002.

## PREMIUM SYNTHETIC BLEND

### GRPS-40 Gas Compressor Lubricant

GRPS-40 is a synthetic blend formulated for lubricating cylinders, packings and frames of reciprocating compressors, where SAE 40 weight oil is recommended by the OEM. It is designed to compress low-density hydrocarbon gases and inert gases such as nitrogen and helium. The synthetic components used in GRPS-40 result in increased compressor efficiency and lower horsepower use when compared with gas engine oils. In addition, the use of GRPS-40 provides increased ring, packing and cylinder life.

GRPS-40 does not contain the detergents, dispersants and ash compounds found in gas engine oils that may cause downstream issues. It does not contain any barium or other heavy metals that may be carried downstream to system components or downhole reservoirs. GRPS-40 has excellent water separation characteristics. These characteristics reduce lubricant related emulsion issues. It is formulated to protect oil-wetted components against the corrosive effects of H<sub>2</sub>S and CO<sub>2</sub> in wet environments. GRPS-40 has excellent low temperature properties for a greater pumpability and storage flexibility.

Please contact Summit's technical department concerning which product is best for your application

### Physical Properties

PRODUCTS	GRPS-40
SAE Weight	40
ISO Viscosity Grade	150
Viscosity:	
@ 40°C, cSt	150
@ 100°C, cSt	18.6
@ 100°F, SUS	774
@ 210°F, SUS	95
Viscosity Index	140
Specific Gravity	0.876
Pour Point, °F (°C)	-22 (-30)
Flash Point, °F (°C)	435 (224)
Four Ball Wear Test, mm	0.58

#### Thermal Characteristics:

Specific Heat  
 BTU/lbm - °F  
 140°F = 0.476  
 160°F = 0.485  
 180°F = 0.494

Thermal Conductivity  
 BTU/hr - ft<sup>2</sup> and °F/inch  
 0°F = 0.94  
 200°F = 0.88  
 400°F = 0.83