

PRODUCT DATA SHEET

Royal Geoguard 500 Mid-Ash *Mid-Ash Natural Gas Engine / Compressor Oil*



PRODUCT DESCRIPTION:

Royal Geoguard 500 Mid-Ash represents a premium line of lubricants formulated for the crankcase, the power and compressor cylinders of spark-ignited, two cycle and four cycle gas-fueled engines. These oils provide maximum resistance to oxidation and corrosion while providing excellent anti-wear performance. The full range of viscosity grades enables the user to select a lubricant that best combines the performance and economy for each engine style, fuel quality as well as the severity of its service. This low mid-ash oil combines the effective dispersant/detergent package with oxidation and corrosion inhibitors, anti-foam additives as well as anti-wear agents making it suitable for use in the engines of the major equipment manufacturers. This unique formulation is recommended for use in both the naturally aspirated and turbo charged two and four cycle engines.

The superior level of cleanliness along with the other advantages makes the **Royal Geoguard 500 Mid-Ash** the best choice for the leaner spark-ignited engines that require the low to mid ash oils.

KEY FEATURES:

- Uses high viscosity base oils with low carbon residues to lessen the formation of carbon and varnish.
- Minimizes the oxidation of the oil thus extending its life
- Higher alkalinity reduces combustion acids created from sour gas

CUSTOMER BENEFITS:

- Controls deposits and minimizes wear of pistons, rings and liners
- Increased resistance to oil nitration and oxidation Inhibits oxidation and nitration leading to longer oil service life and reduced maintenance
- Compatible with engines equipped with catalytic converters

APPLICATIONS:

Four cycle engines: (High and Medium Speed)

Caterpillar
Cooper-Bessemer
Cummins
Dresser-Rand: Categories I, II, & III
Superior
Waukesha
Worthington
API CG

Two cycle engines: (Selected models only-see OEM requirements)

Ajax
Clark (Dresser Industries)
Worthington

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PACKAGING:

Totes, Drums, Pails,

Typical Properties

Royal Geoguard 500 Mid-Ash					
PRODUCT NUMBER	154	155	156	157	Test Method
SAE GRADE	20	30	40	15W40	
Viscosity @ 40C, cSt	48	101	121	104	
Viscosity @ 100C, cSt	7	11.4	13.8	13.8	
Viscosity @ 100F, SUS	246	534	636	536	ASTM D 445
Viscosity @ 210F, SUS	49	65	72	73	
Viscosity Index	97	97	101	129	ASTM D2270
Flash Point, C	425	430	450	420	ASTM D92
Pour Point, C	0	0	5	-25	ASTM D97
Sulfated Ash, % Weight	0.42	0.42	0.42	0.42	
Zinc, % Weight	0.03	0.03	0.03	0.03	
Phosphorus, % Weight	0.027	0.027	0.027	0.027	
Calcium, % Weight	0.12	0.12	0.12	0.12	
Nitrogen, % Weight	0.08	0.08	0.08	0.08	
Base Number	5.1	5.1	5.1	5.1	
API Gravity	27.5	27.5	27.0	28.5	
API Service	CD	CD	CD	CD	

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, www.royalmfg.com, or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.