

PRODUCT DATA SHEET

Royal Geoguard 700 Mid-Ash **Premium Natural Gas Engine Oil**



PRODUCT DESCRIPTION:

Royal Geoguard 700 Mid-Ash products are premium natural gas engine oils formulated for the lubrication of the crankcase as well as the power and combustion cylinders of spark-ignited, two and four-cycle gas engines. Oxidation and nitration are the common causes for oil degradation in severe gas engine operations. Our base stocks and additive package are carefully selected to retard both oxidation and nitration while providing maximum engine protection.

Royal Geoguard 700 Mid-Ash is a specially developed gas engine oil to effectively control valve recession in four-cycle engines. This product has improved cold operating performance and increased shear stability.

Royal Geoguard 700 Mid-Ash is an efficient lubricant for natural gas engines under conditions of continuous high load and high operating temperatures over long periods of time.

KEY FEATURES:

- Formulated for severe applications
- Outstanding wear protection

CUSTOMER BENEFITS:

- Controls valve recession
- Superior oxidation stability
- Better viscosity control

APPLICATIONS:

Royal Geoguard 700 Mid-Ash is recommended for large four-cycle natural gas engines requiring a mid ash engine oil.

PACKAGING:

Totes, Drums and Pails

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Royal Geoguard 700 Mid-Ash Premium Natural Gas Engine Oil



Typical Properties

Royal Geoguard 700 Mid-Ash						
Product Number	159	160	161	162	163	Test Method
SAE Grade	30/40	30	40	10W30	15W40	
Viscosity @ 40C, cSt	119	101	128	57	108	
Viscosity @ 100C, cSt	12.6	11.4	13.8	9.3	13.8	
Viscosity @ 100F, SUS	623	534	670	293	551	ASTM D445
Viscosity @ 210F, SUS	70	65	73	56	74	
Viscosity Index	97	100	100	135	130	ASTM D2270
Pour Point, F	-5	0	5	-30	-25	ASTM D97
Flash Point, F	480	430	450	390	420	ASTM D92
API Gravity	27.0	27.5	27.0	29.3	28.5	
Nitrogen, % weight	0.062	0.062	0.062	0.062	0.062	
Phosphorus, % weight	0.085	0.085	0.085	0.085	0.085	
Calcium, % weight	0.209	0.209	0.209	0.209	0.209	
Zinc, % weight	0.095	0.095	0.095	0.095	0.095	
Sulfated Ash, % weight	0.78	0.78	0.78	0.78	0.78	
Base Number	7.0	7.0	7.0	7.0	7.0	
API Service	CD	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.