



Geoguard 300 Low-Ash

Low Ash Natural Gas Engine Oil

Geoguard 300 Low-Ash is a combination of high quality base oils and a unique blend of additives specially designed for service in two and four cycle LPG and natural gas engines. The low ash product is designed to provide both maximum stability and outstanding performance. Typically, stationary natural gas and LPS engines operate a low to medium speeds for prolonged periods placing the formation of deposits, minimum sludge, reduce varnish and keep the engine clean. The oil combines a highly effective detergent/dispersant with oxidation and corrosion inhibitors, anti-wear agents as well as anti-foaming additives.

Geoguard 300 Low-Ash combine an ashless dispersant/detergent package with oxidation and corrosion inhibitors, anti-foam agents as well as anti-wear additives making them suitable for use in the engines of major equipment manufacturers. This ashless formation is recommended for use in ashless chemistry where the prevention of intake and exhaust deposits is critical. The reduced carbon and ash deposits make the Royal Geoguard 300 Low-Ash the best choice for a universal ashless gas engine oil in a wide variety of low and high speed engines.

Product Features:

- Ashless nature minimizes spark plug deposits
- Excellent protection against mechanical friction and wear
- Reduced oil consumption making longer drain intervals

Customer Benefits:

- Low ash formula is excellent protection against wear, sludge and varnish
- Reduces ring sticking, spark plug fouling, detonation and/or pre-ignition
- Inhibits oxidation and nitration leading to longer oil service life and reduced maintenance
- Compatible with catalytic converters due to its low level of phosphorus
- 15W40 grade provides improved oil flow at low temperatures resulting in improved lubricating properties



Typical Properties

Geoguard 300 Low-Ash

Product Number	147	148	149	150	151	152	Test Method
SAE Grade	20	30	40	50	10W30	15W40	-
API Gravity	28.5	27.5	27	26.5	29.3	28.5	-
Sulfated Ash, % weight	0.32	0.32	0.32	0.32	0.32	0.32	-
Phosphorus, % weight	0.02	0.02	0.02	0.02	0.02	0.02	-
Nitrogen, % weight	0.006	0.006	0.006	0.006	0.006	0.006	-
Flash Point °C (F)	226(438)	232(450)	261(501)	238(460)	237(458)	229(444)	ASTM D92
Pour Point °C (F)	-27(-16)	-18(0.4)	-15(5)	-12(10)	-30(-22)	-27(-16)	ASTM D97
Viscosity							
@210F, SUS	49	65	73	93	64	73	
@100F, SUS	246	540	650	870	335	533	ASTM D445
Viscosity							
@100°C cSt	12.86	8.01	13.5	18.0	9.9	13.41	
@40°C cSt	95.28	62.60	133.2	167	58.78	96.63	
Viscosity Index	97	95	103	121	135	130	-
API Service	CD	CD	CD	CD	CD	CD	

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671.

Packaging options:



1 Gal Jugs



5 Gal Pails



55 Gal Drums



275/330 Gal Totes



>2000 Gal Bulk