

PRODUCT DATA SHEET

Royal Diesel Supreme Plus Multigrade **Heavy Duty Diesel Engine Oil**



PRODUCT DESCRIPTION:

Royal Diesel Supreme Plus (10W30, 10W40, 15W40, and 20W50) multigrade oils have been reformulated to meet the stringent requirements of today's engines. These multigrade oils meet and/or exceed the performance requirements of API CI-4/SL, CH-4, CG-4, CF-4, CF and SJ. In addition, the oils exceed the Allison C-4, MIL-L-2104F, MIL-L-2104G as well as the older API classifications CE, CD-II, SH, MIL-L-46152E, Mack EO-K/2, EO-L and EO-L Plus.

The same premium oil is available in a **Royal Diesel Supreme Plus 10W30** grade for better low temperature performance in colder climates, better fuel economy compared to the **Royal Diesel Supreme Plus SAE 15W40** and to meet the demands of the OEM's (CG-4, CF-4, CF and SJ) who recommend lower viscosity grades.

Royal Diesel Supreme Plus 20W50 contains the same high quality base stocks and performance additives found in the CH-4 approved product. It can be used for both gasoline and diesel engine service requiring a CF-4, CF, SH or SJ oil. The **Royal Diesel Supreme Plus 20W50** is an excellent choice for high temperature and heavy loads.

KEY FEATURES:

- Excellent cold weather properties
- Extended oil drain capability
- Enhanced engine life

CUSTOMER BENEFITS:

- Meets the needs of today's high-performance, fuel efficient, low emission diesel and gasoline engines
- Better cold flow properties for easier starting in colder weather
- Minimizes valve and combustion chamber deposits
- More effectual shear stability for better viscosity control

APPLICATIONS:

- General Motors-Allison C-4
- Allis Chalmers
- J.I. Case
- Caterpillar
- Cummins 27006 (10W30, 15W40)
- John Deere
- JCB
- Deutz
- Volvo VDS (15W40)
- Mack E0-M, EO-M Plus (15W40)
- Navistar International
- Komatsu
- Mercedes 228.1
- ACEA E2/B3/A2
- Detroit Diesel (15W40 in Series 40,50,55,60 and all other four stroke engines)

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PACKAGING:

Totes, Drums, Pails, Gallons, Quarts

Typical Properties

| Royal Diesel Supreme Plus Multigrade | | | | | |
|--------------------------------------|--------|--------|--------|--------|-------------|
| Product Number | 106C | 107 | 108G | 109 | Test Method |
| SAE Grade | 10W30 | 10W40 | 15W40 | 20W50 | - |
| Viscosity@40°C cSt | 65.31 | 97.54 | 116.1 | 170.7 | ASTM D445 |
| Viscosity@100°CcSt | 9.868 | 13.4 | 14.75 | 18.9 | ASTM D445 |
| Viscosity Index (VI) | 134 | 145 | 133 | 123 | ASTM D2270 |
| API | 29.91 | 29.7 | 28.75 | 28.22 | |
| Specific Gravity | 0.8767 | 0.8778 | 0.8829 | 0.8859 | |
| Density | 0.8762 | 0.8773 | 0.8825 | 0.8855 | |
| Pour Point °C | -30 | -27 | -24 | -24 | ASTM D97 |
| Lbs/Gal | 7.301 | 7.31 | 7.354 | 7.378 | |
| Flash Point °C | 196 | 198 | 210 | 221 | ASTM D92 |
| Color | <7.5 | <7.5 | <7.5 | <7.5 | ASTM D1500 |

Typical Properties are typical of those obtained with normal production tolerance and do not constitute 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.