

## PRODUCT DATA SHEET

### **Royal Super Select Multigrade** **Multigrade Passenger Cars Engine Oils**



#### **PRODUCT DESCRIPTION:**

**Royal Super Select Multigrade** oils are formulated using highly refined petroleum base oils and the finest additives to meet the redesign as well as the demanding performance of today's engines. It has been developed to provide maximum protection under all driving conditions and protect against the rigors of stop-and-go driving.

**Royal Super Select Multigrade** multigrade oils meet and/or exceed the stringent requirements of the API "SN" and ILSAC Category GF-5, Resource Conserving Category (5W20, 5W30 and 10W30). These oils meet GM 6094M, Ford ESE-M2C153-E, GSA A-A52039 (formerly MIL-L-46152E) and GSA A-A-52306A (formerly MIL-L-2104). It is also recommended for older engines, which the normal requirement would be an API SL, SH, SG, SF, SE service classification.

These advanced oils have significantly improved oxidation stability, added detergency and a unique additive package to provide maximum protection over the life of the oil. Additionally, these multigrade oils protect today's smaller six-cylinder and four-cylinder engines, turbocharged engines as well as older, larger engines.

#### **KEY FEATURES:**

- Low friction helps improve gas mileage and longer engine life
- Protects against rust and corrosion
- Excellent anti-wear capabilities
- Cleaner engines and positive crankcase ventilating systems

#### **CUSTOMER BENEFITS:**

- Extra protection for the increased temperatures of the newer engines
- Protects against startup wear
- Reduced build up of sludge and varnish deposits

#### **APPLICATIONS:**

API SN/SM/SL/SJ

ILSAC GF-5, GF-4, GF-3 (5W20, 5W30 and 10W30)

Meets requirements of API Services SH/CD, which replaces SG/CD, SF/CC and MIL-L-2104B

Super premium lubricant for gasoline and certain diesel engines. Follow manufacturers' recommendations

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Meets or exceeds the specifications of the following manufacturers:

Audi	Chrysler	Ford Motor Company	General Motors
Isuzu	Mazda	Nissan	Subaru
Some LP-gas fueled engines		Toyota	Volkswagen

### PACKAGING:

Totes, Drums, Pails, Gallons, Quarts

## Typical Properties

Royal Super Select Multigrade						
Product Number	190SN	186SN	187SN	188SN	189	Test Method
SAE Grade	5W20	5W30	10W30	10W40	20W50	-
API	32.42	32.42	31.3	31.44	28.97	-
Specific Gravity	0.86323	0.86325	0.86918	0.86844	0.88177	ASTM 4052
Lbs/Gal	7.189	7.189	7.239	7.232	7.343	
Density	0.86274	0.86277	0.86869	0.86795	0.88127	
Flash Point °C	201	200	195	199	224	ASTM D92
Pour Point °C	-24	-24	-27	-24	-24	ASTM D97
Color	<4.0	<4.0	<4.0	<4.0	<4.0	ASTM D1500
Viscosity@100°C cSt	7.78	10.35	10.5	14.3	17.44	ASTM D445
Viscosity@40°C cSt	44.33	60.36	65	94.97	156	ASTM D445
Viscosity Index (VI)	146	161	142	155	122	ASTM D2270

*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](http://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.