

# Product Data Sheet

## Multi Grade Gasoline Engine Oil (SN) Premium Gold

<b>SAE:</b>	<b>10W30</b>	<b>10W40</b>	<b>20W50</b>
<b>Product Code:</b>	<b>581</b>	<b>582</b>	<b>583</b>

### OVERVIEW

**Multi Grade Gasoline Engine Oil SN** are formulated using high quality base oils and additive packages for use in gasoline fueled engines. These oils are formulated for excellent wear protection and resist viscosity and thermal breakdown. **Multi Grade Gasoline Engine Oil SN** provide extra protection against the harmful effects of city driving, where cars undergo a higher stress due to constant stops and starts. They are specially formulated to protect high compression gasoline direct injection engines from the occurrence of Low Speed Pre-Ignition (LSPI) and Timing Chain Wear.

### FEATURES / BENEFITS

**Multi Grade Gasoline Engine Oil SN** offer excellent detergency for engine cleanliness, easy cold weather starting including dry startup, and engine protection under a wide variety of operating conditions. Their superior formulas help reduce deposits protect high-performance engines and help reduce engine wear and corrosion

### APPLICATIONS

**Multi Grade Gasoline Engine Oil SN** 10W-30 is designed for use in gasoline fueled automobiles and light duty

trucks requiring an API SN, SM, SL, or SJ product. It exceeds the requirements of ILSAC and is a resource conserving lubricant. 10W-30 low friction formula helps improve gas mileage for long engine life and helps protect against rust, corrosion, startup wear, varnish build-up, and eliminates the need for extra oil additives. It also protects against thermal breakdown which helps prevent stuck rings. Specially formulated to protect high compression gasoline direct injection engines from the occurrence of Low Speed Pre-Ignition (LSPI) and Timing Chain Wear.

**Multi Grade Gasoline Engine Oil SN** 10W-40 is also recommended for use in gasoline fueled automobiles and light duty trucks where a higher viscosity oil is preferred or where API SN, SM, SL, SJ, or SH product is required.

**Multi Grade Gasoline Engine Oil SN** 20W-50 is recommended for use in high performance engines found in race and rally driving. It has a higher viscosity that provides engines with full protection under higher operating speeds, temperatures, and other adverse conditions.

### SPECIFICATION /Suitable for Use Claims:

Exceeds API SN, SN Plus, SM, SL, SJ and CF services.

**ALWAYS CONSULT YOUR OWNER'S MANUAL FOR THE PROPER LUBRICANT OIL FOR YOUR EQUIPMENT.**

## TYPICAL TEST DATA

PRODUCT CODE	581	582	583
SAE GRADE	10W-30	10W-40	20W-50
API/ILSAC/ACEA Specifications	SN, SM, SL, SJ/GF-5 /A1-12/A5-12	SN, SN Plus, SM, SL, SJ	SN, SN Plus, SM, SL, SJ
Density	8.64	7.25	7.32
Viscosity, cSt @ 100°C	10.2	15.5	18.5
Viscosity, cSt @ 40°C	65.0	112.0	155.0
Viscosity, CCS cP @°C	4400 (-25)	6400 (-25)	6200 (-15)
Viscosity Index	143	145	135
Pour Point, °C	-30	-35	-35
Flash Point, °C	457	230	230
Zinc, Wt. (%)	0.089	0.082	.082
Calcium, Wt. (%)		0.136	.136
Phosphorus, Wt. (%)	0.078	0.075	.075

The above test data are average values only. Minor variations which do not affect product performance are to be expected during manufacturing. Specific PDS for each product will be provided upon purchase.