

# ONYX 57000

## Automotive Engine Oil Additive Package

### DESCRIPTION:

ONYX 57000 is a high performance PCMO package designed for main tier API categories from API SL/CF-4 down to API SB/CB. It also meets the performance requirements of JASO MA 2 for 4 Stroke motorcycle applications at specific booster treat rates.

### PERFORMANCE:

When blended with appropriate base stock(s) and viscosity modifiers, the formulated lubricant meets the following performance levels.

Performance	Mass%	BN
SL/CF-4	6.35	7.0
SL/CF	6.0	6.8
SL, *JASO MA 2	5.25	6
SJ, *JASO MA2	4.77	5.4
SG/SF/CD	4.60	5.2
SG/SF/CC, *JASO MA 2	4.30	5
SE/CC	3.99	4.5
SC/CC	2.22	2.5
SC/CB	2.22	2.5
SB/CB	2	2.3

\*Contact ONYX representative for information on booster dosage for JASO claims.

### PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Viscosity@ 100°C, cSt	ASTM D445	Report	65
BN, mgKOH/g	ASTM D2896	min 100	113
Molybdenum, %Wt	ASTM D5185	0.092 – 0.126	0.115
Calcium, % Wt	ASTM D4951	2.9 – 3.75	3.31
Zinc, % Wt	ASTM D4951	1.30 – 1.85	1.60
Phosphorus % Wt	ASTM D4951	1.16 – 1.74	1.45
Nitrogen % Wt	ASTM D5291	0.75 – 1.03	0.94
Flash Point (PMCC), °C	ASTM D93	>180	Report
Specific Gravity @ 15.6 °C	ASTM D1298	Report	1.01

The above characteristics are provided to indicate the typical values measured on the product.

**GENERAL HANDLING INSTRUCTIONS:**

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Material safety data sheet should be consulted for specific information and for information on health and safety.

**Temperature Recommendations:**

<b>Unloading:</b>	<b>Temperature</b>	
Pumping temperature	60°C	140°F
Maximum temperature	70°C	158°F
<b>Storage:</b>		
Maximum temperature for long term storage	45°C	113°F
<b>Blending:</b>		
Max. Base oil temperature for mechanical or in-line mixing	70°C	158°F

**Equipment Recommendations:**

Type of Pump	Positive Displacement
Type of transfer line	Ball lunched, Insulated, Steam Traced Using 107°C/225F Steam Max.
Transfer Line Size	2-3inch/5-8cm.

**Heat Source:**

Type	Steam 107°C/225°F max.
Storage Tank	Suction Heater Recommended