

ONYX 52000

Automotive Engine Oil Additive Package

DESCRIPTION:

ONYX 52000 is a high performance PCMO package designed for mid to low tier API categories from API CF/SF down to API SB/CB. It contains ash-less dispersant, zinc dithiophosphate, metallic detergents and oxidation inhibitors. ONYX 52000 provides excellent deposit control, oil oxidation resistance, wear and rust control in gasoline and diesel engines.

PERFORMANCE:

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

API Performance	Mass%	BN
CF/SF	2.8	5.2
SF/CD	2.4	4.5
SE/CC	2.3	4.3
SD/CD	2.3	4.3
SD/CC	2.2	4.1
SC/CC	1.1	2.0
SB/CB	1.0	1.9

PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Viscosity@ 100°C, cSt	ASTM D445	Report	70
BN, mgKOH/g	ASTM D2896	min 175	185
Flash Point (PMCC), °C	ASTM D93	>180	Report
Density @ 15.6 °C, g/ml	ASTM D1298	Report	1.09

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:

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

NOTE

If you require further information, please contact your regional Onyx representative.