

ONYX 53400

Automotive Engine Oil Additive Package

DESCRIPTION

ONYX 53400 is a high tier, low treat rate package to formulate motor oil meeting API SP performance. It protects turbocharged gasoline direct injection (GDI) engines from low speed pre-ignition (LSPI) phenomenon and delivers robust performance over ILSAC GF-6. ONYX 53400 imparts excellent high temperature detergency, sludge dispersancy and antioxidation performance to finished lubricants.

RECOMMENDED DOSAGE & PERFORMANCE

At a recommended treat rate, the finished lubricant meets the following performance levels.

Performance level	SAE Grades	Treat Rate, Wt. %
API SP	0W-16, 0W-20, 5W-20, 5W-30, 10W-30, 10W-40, 15W-40, 15W-50, 20W-50, 30, 40	7.6
ILSAC GF-6A	0W-20, 5W-20, 5W-30, 10W-30	7.6
ILSAC GF-6B	0W-16	7.6

PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Viscosity@ 100°C, cSt	ASTM D445	-	TBR
BN, mgKOH/g	ASTM D2896	min 86	95
Flash Point, °C	ASTM D92	>180	TBR

GENERAL HANDLING INSTRUCTIONS:

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Maximum handling temperature is 60°C. 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	70°C	158°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.