

# ONYX 53500

## Automotive Engine Oil Additive Package

### DESCRIPTION

ONYX 53500 is a multifunctional engine oil additive package designed to meet the lubrication requirements of gasoline engines. It contains ash-less dispersants, friction modifiers, metallic detergents and oxidation inhibitors. ONYX 53500 also meets JASO MA2 performance requirements for 4-stroke motorcycle engine oils.

Cascade system has been developed to meet API performance SN/SM/CF down to API SG/CD.

### RECOMMENDED DOSAGE & PERFORMANCE

API Performance Level	Multigrade, % wt.
SN/SM/CF, JASO MA2	6.80% ONYX 53500*
SL/CF, JASO MA2	6.80% ONYX 53500
SJ/CF	5.45% ONYX 53500
SG/CD	4.80% ONYX 53500

\*Only available in Aramco Prima GII.

### PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Values
Viscosity@ 100°C, cSt	ASTM D445	Report	70
BN, mgKOH/g	ASTM D2896	min 105	110
Flash Point, °C	ASTM D92	Report	200

**GENERAL HANDLING INSTRUCTIONS**

Neoprene or nitrile rubber gloves and safety goggles should be worn for handling. Maximum handling temperature is 65°C. 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	60°C	140°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	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.