

ONYX 57300

Automotive Engine Oil Additive Package

DESCRIPTION

ONYX 57300 is a versatile PCMO additive package designed to meet the lubrication requirements of gasoline direct injection (GDI) engines which are sometimes susceptible to Low speed pre-ignition (LSPI) events. ONYX 57300 has been specially formulated to protect against LSPI.

ONYX 57300 in combination with booster package ONYX 57800, meets the requirements of API SP. Please contact your ONYX representative for more information.

RECOMMENDED DOSAGE & PERFORMANCE

At a recommended treat rate of 7.60 Wt.%, the finished lubricant meets the following performance requirements in suitable viscosity grades.

- API SN PLUS

PHYSICAL / CHEMICAL CHARACTERISTICS

Parameters	Test Methods	Specifications	Typical Value
Viscosity@ 100°C, cSt	ASTM D445	Report	65
BN, mgKOH/g	ASTM D2896	min 82	88
Calcium, % Wt.	ASTM D4951	1.30 – 1.90	1.64
Zinc, % Wt.	ASTM D4951	0.9 – 1.33	1.11
Phosphorus, % Wt.	ASTM D4951	0.80 – 1.05	0.94
Molybdenum, ppm	ASTM D4951	min 450	630
Boron, % Wt.	ASTM D4951	min 0.08	0.118
Magnesium, Wt.	ASTM D4951	0.40 – 0.80	0.56
Nitrogen, % Wt.	ASTM D5291	min 0.55	0.72
Flash Point, °C	ASTM D92	Report	200
Specific Gravity @15.6 °C	ASTM D1298	Report	0.985

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:

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