

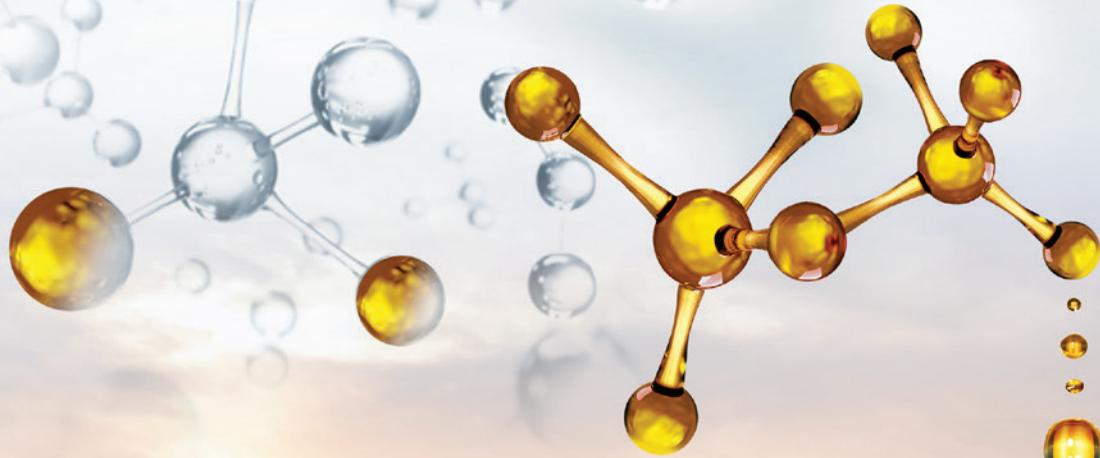


 *Guaranteed Product Quality*

 *High Blending Efficiency*

 *Reliable Supply*

# ***THE PERFORMING BASE OF YOUR PRODUCTS***



LPC BASE OIL

**PRO** **BASE**

 **PLUS** **BASE**

**SYN** **BASE**

# LPC BASE OIL

LPC based on its production capacity offers a full range of consistently high-quality base stocks, designed to cover your base oil and lubricant blending needs.



Learn how to win with high blending efficiency



Learn how to win with guaranteed product quality



Learn how to win with reliable supply & flexible logistics



### GROUP I

#### WHY PROBASE IS SUPERIOR?

#### HOW CAN YOUR BUSINESS BENEFIT?

High Viscosities @40°C

Improved solvency

Inherent oxidation resistance

Straight run fraction

- ✓ Simplified formulations
  - ISO 32/SAE 10W only with SN 150
  - ISO 100/SAE 30 only with SN 500
- ✓ Excellent additive response with all types of additives, viscosities, synthetic components
- ✓ Less requirement for thickener (greases)

- ✓ High temperature stability even when antioxidants are exhausted
- ✓ Very light color
- ✓ Odorless
- ✓ Low toxicity

- ✓ Consistent product quality
- ✓ Reliable behavior in service with reduced cost
- ✓ Proven performance (DIN specs, Marine approval field tests)



SN150



SN500



BRIGHTSTOCK

PROPERTIES	SN 150	SN 500	BRIGHTSTOCK
Odor	Oily	Oily	Oily
Appearance	B&C	B&C	B&C
Color	L0.5	L2.0	L5.0
Specific gravity 15°C	0.8740	0.8860	0.9030
Viscosity at 100°C, cSt	5.35	10.35	31
Viscosity at 40°C, cSt	32.6	90.5	475
Viscosity Index	96	95	95
Flash point, COC, °C	220	250	300
Pour point, COC, °C	-9	-9	-6
Water, ppm	max 80	max 80	max 80
S,% wt	0.35	0.45	0.90
CCS -20°C, mPas	2700	-	-
Noack Volatility, wt %	15.5	5,5	-

The above-mentioned figures are typical and subject to production fluctuation

**WHY PLUSBASE IS SUPERIOR?**

Higher Saturates Content

High Viscosity Index

Low Sulfur Content

Low volatility

Superior Cranking Viscosity

**HOW CAN YOUR BUSINESS BENEFIT?**

- ✓ Fully licensable ACEA E7-22 & API CI-4/SL formulas
- ✓ Production simplicity:
  - 15W40: only with SN 350+
  - 10W40: less GRP III required
  - ISO 46: only with SN 350+

- ✓ Light color (SN 150+, SN 350+)
- ✓ Odorless
- ✓ No GRP III required (15W40)
- ✓ No antioxidant required
- ✓ Comparable performance with GRP II

- ✓ Finished lubes with far superior low temperature performance (CCS)
- ✓ Up to 25% less Viscosity Modifier (engine oils, HVI hydraulic applications) for improved shear stability

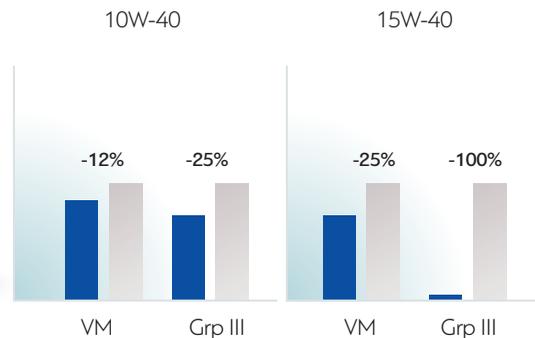
Less Viscosity modifier and less GRP III needed with PLUSBASE vs common GRP I



SN150+

SN350+

SN 2000



PROPERTIES	SN 150+	SN 350+	SN 2000
Odor	Oily	Oily	Oily
Appearance	B&C	B&C	B&C
Colour	L0.5	L1.0	L5.0
Specific gravity 15°C	0.8550	0.8620	0.8850
Viscosity at 100°C, cSt	4.9	7.2	23
Viscosity at 40°C, cSt	25.8	46.8	285
Viscosity Index	114	114	99
Flash point, COC, °C	220	250	280
Pour point, COC, °C	-9	-9	-9
Water, ppm	max 80	max 80	max 80
S,%wt	0.06	0.08	0.30
CCS -20°C, mPas	1200	-	-
Noack Volatility, wt %	13	4	-

The above-mentioned figures are typical and subject to production fluctuation

GROUP III

**WHY SYNBASE IS SUPERIOR?**

**HOW CAN YOUR BUSINESS BENEFIT?**

High Viscosity Index

Very low Pour Point

Low NOACK

Fully saturated

✓ Excellent shear/oxidation/thermal stability at extreme temperatures

✓ Ideal for excellent low-temp properties and light grade applications

✓ Low volatility and, therefore, less oil loss in higher temperatures  
 ✓ Further, facilitates fuel economizing

✓ Fully saturated, meaning virtually free of aromatics, polar compounds and Sulphur.  
 ✓ Colorless, odorless.

SYNBASE average comparison with key competition

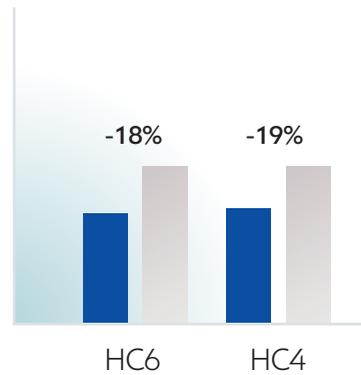


HC4

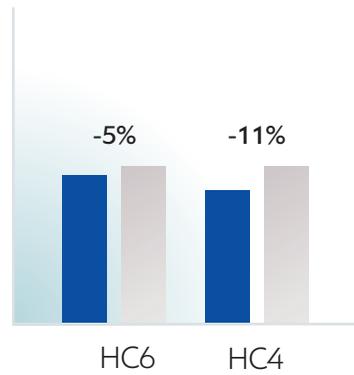


HC6

Pour Point



NOACK



PROPERTIES	LC4	LC6
Appearance	B&C	B&C
Color	L0.5	L0.5
Specific gravity 15°C Visc.	0,8260	0,8470
Visc. Kinematic 100 °C,cst	4,2	6
Visc. Kinematic 40 °C, cst	19	32,8
Viscosity Index	127	130
Flash point, °C	230	238
Pour point, °C	-18	-15
Sulphur, mg/kg	<15	<15
CCS@-30°C, cp	1350	4400
Volatility (Noack), wt %	14,5	6,5

The above-mentioned figures are typical and subject to production fluctuation

# LEARN HOW TO WIN WITH RELIABLE SUPPLY

LPC's production capacity ensures prompt product availability.  
Take advantage of LPC's steady supply.

## Thessaloniki

Available Packaging:  
Truck  
Isotank

## Alexandroupoli

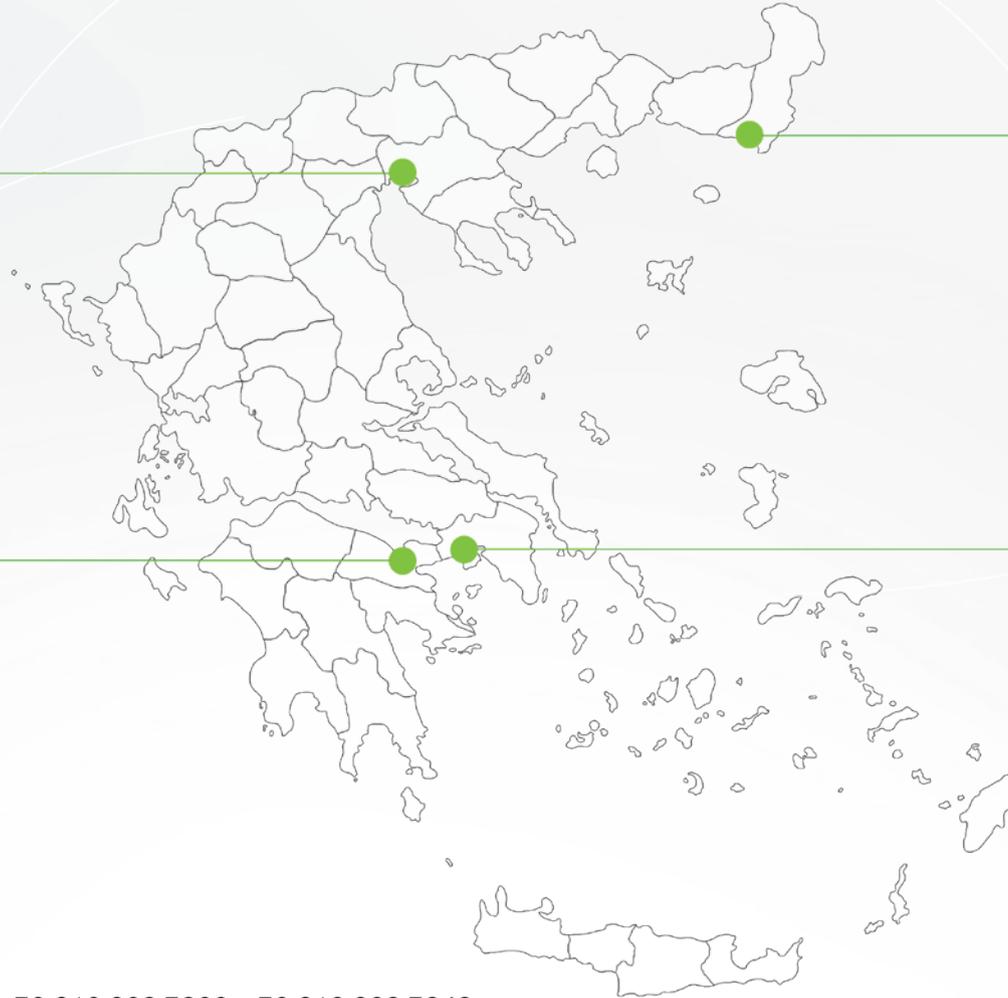
Available Packaging:  
Truck  
Isotank

## Korinthos

Available Packaging:  
Truck  
Isotank  
Flexitank

## Aspropirgos

Available Packaging:  
Truck  
Isotank  
Flexitank



Megaridos Avenue 124,  
Aspropyrgos – Attica, 193 00

Tel.: +30 210 809 3900, +30 210 809 3949  
E-Mail: Base\_Oils@lpc.gr

[www.lpc.gr](http://www.lpc.gr) 

**LPC**  
Lubricants & Petroleum Corporation