

Lubrication Technologies, Inc.

Lube Base Oils Reference Center Data

API Group II Lube Base Stocks



Base Stock *Nominal Viscosity at 100C, cSt (actual viscosity in parenthesis below the product name/number designation)*

	4	6	12
KENDEX 165 HTLV	(5.2)		



Base Stock *Nominal Viscosity at 100F, SUS*

	100	150	200	300	500	600
Calpar	100	150		325		
	(107.8)	(156.5)		(331.5)		



Richmond, CA

Base Stock *Nominal Viscosity at 100F, SUS*

	100	150	200	300	500	600
GROUP II	100R	145R, 150R	220R			600R
	(107)	(149),(153)	(214)			(590)
GROUP II+	110RLV	5R				
	(113)	(124)				

Note: Chevron has discontinued 5R and is selling 110RLV as the replacement

Click on the Chevron logo above which will take you to the Chevron base oil website for complete specifications for Chevron base oils



Westlake, LA (Excel Paralubes JV With Flint Hills)

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>						
	2	3	4	6	8	10	12
Pure Performance		70N*, 80N*	110N	225N			600N
		(2.96), (3.08)	(4.15)	6.5			(12.2)

* 70N & 80N meet Group II requirements for sulfur and saturates but may fall below 80 for VI



Newell, WV

Base Stock

	<i>Nominal Viscosity at 100F, SUS</i>					
	100	150	200	300	500	600
Hygold	P100N			P300N		
	(116.9)			(313)		



Excel Paralubes Westlake, LA see Phillips 66 and Flint Hills Resources



Baton Rouge, LA; Baytown, TX; Beaumont, TX; Jurong, Singapore; Wakayama, Japan

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>							
	2	3	4	5	6	8	10	12
EHC			45	50	60			110
			(4.55)	(5.4)	(6.45)			(11.0)

ExxonMobil has advised Lubrication Technologies, Inc. that EHC 20 and EHC 30 are no longer available



Westlake, LA (Excel Paralubes JV With Phillips 66)

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>				
	3	4	6	12	
	70-HC, 75-HC*	100-HC	230-HC	600-HC	
	(2.89) (3.09)	(4.16)	(6.44)	(12.35)	

* 70-HC & 75-HC meet Group II requirements for sulfur and saturates but may fall below 80 for VI



Port Arthur, TX

<i>Base Stock</i>	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
					6	8	10	12	14	28	40	100
GROUP II												
Star			4		6			12				
			(4.2)		(6.39)			(12.1)				



Mississauga, Ontario, Canada

<i>Base Stock</i>	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
					6	8	10	12	14	28	40	100
Purity		L60, L65	1003*, 1017, 1020		2204	3501	5300					
		(2.4), (2.6)	(4.4), (4.3), (4.4)		(6.3)	(8.9)	(11.2)					

* Note: Purity 1003 is Group II+



Yeosu, South Korea

<i>Base Stock</i>	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
					6	8	10	12	14	28	40	100
Kixx LUBO				150N	220N			600N				
				(5.35)	(7.30)			(12.15)				



Ulsan, South Korea

<i>Base Stock</i>	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
					6	8	10	12	14	28	40	100
		L3, 3										
		(3.12)										

VI less than minimum 120 required for Group III



Melaka, Malaysia

Base Stock

Nominal Viscosity at 100C, cSt

2	4	6	8	10	12	14	28	40	100	150
				M500						
				(10)						



Formosa PetroChemical Corp., Mailiao, Taiwan

Base Stock

Nominal Viscosity at 100C, cSt

2	3	4	5	6	8	10	12	14	28	40	100
			150N GII+			500N GII					
			(5.2)			(11)					



Onsan, South Korea

Base Stock

Nominal Viscosity at 40C, cSt

Premium	2	4	6	8	10	20	30	50	100	115	480
				P-8		P-20	P-31		P-96	P-116	P-480
				(7.5)		(20.3)	(30.1)		(95.8)	(115.9)	(480.6)
				60N		100N	150N		500N	600N	150BS
Super				S-8			S-31		S-96		
				(8.2)			(30)		(96.7)		
				60N			150N		500N		

Base Stock

Nominal Viscosity at 100C, cSt

Ultra-S	2	3	4	6	8	10	20	30	50	100
	2	3								
	(2.17)	(3.32)								

* Ultra-S 2 and Ultra-S 3 are Group III type but do not meet minimum 120 VI for Group III and therefore are Group II base oils.



Modrica, Bosnia and Herzegovina

Base Stock

	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
	Trafo Baza	HC-3	HC-4		6	8	10	12	14	28	40	100
	(2.7)	(3)	(4)									



PetroChina (CNPC), China

Base Stock

	2	3	4	5	<i>Nominal Viscosity at 100C, cSt</i>							
					6	8	10	12	14	28	40	100
	2			5						KH 150		
	(2.52)			(5.78)						(33.2)		



IndianOil

Haldia, India

Base Stock

	10	20	32	<i>Nominal Viscosity at 40C, cSt</i>				150	500
	H-70		H-150	46	68	100			
						H-500			



H&R ChemPharm

H&R Chempharm GmbH, Salzbergen, Germany

Base Stock

	2	3	<i>Nominal Viscosity at 100C, cSt</i>				10	12
			4	6	8			
			Pionier 4127					
			(SN150)					
			(5.3)					



Eni Livorno, Italy

Base Stock

<i>Nominal Viscosity at 100F, SUS</i>							
100	150	200	300	500	600	2500	
SN90	SN150		SN500			150BS	



Bharat Petroleum, Mumbai, India

Base Stock

<i>Nominal Viscosity at 40C, cSt</i>							
10	20	32	46	68	100	150	500
65N		150N			500N		
(11-12.2)		(29-33)			(11-12 at 100C)		