

Lubrication Technologies, Inc. Lube Base Oils Reference Center Data

API Group I Lube Base Stocks



Bradford, PA

Base Stock	Nominal Viscosity at 100C, cSt (actual viscosity in parenthesis below the product name/number designation)											
	2	4	6	8	10	12	14	20	30	40	50	100
KENDEX, straight cuts		0150H					0750		0846, 0847	0840,	0842	
		(5.2)					(14.0)		(28.0), (32)	(45.0),	(53)	
KENDEX, custom blends	0100	0200, 0250, 0300		0500								
	(4.0)	(6.35), (6.68)		(11.6)								



Shreveport, LA

Base Stock	Nominal Viscosity at 100F, SUS								
	60	80	100	150	200	300	500	600	1,000
Calpar	60	80						700	1,000
	(54.9)	(78.4)						(709.2)(2641)	(154.8 SUS at 210F)



Tulsa, OK

Base Stock	Nominal Viscosity at 100F, SUS								
		100	150	200	300	500	600	1,000	2500
	SN 70	SN 100	SN 150	SN 200	SN 250	SN 525	SN 600		SN 150BS
	(65)	(106)	(156)	(211)	(268)	(511)	(622)		(2572) (160 @ 210F)

Click on the HollyFrontier logo above which will take you to their web site.



Baton Rouge, LA; Baytown, TX; Beaumont, TX

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>			
	20	32	46	68	100	150	460
AMERICAS CORE	100	150			600		2500
	(20)	(30)			(112)		(500)



Fawley, UK; Augusta, Italy; Gravenchon, France

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>			
	20	32	46	68	100	150	460
AP/E CORE	100	150			600		2500
	(20)	(30)			(112)		(500)



Pulau Ayer Chawan, Singapore

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>			
	20	32	46	68	100	150	460
AP/E CORE	100	150			600		2500
	(20)	(30)			(112)		(500)
AP/E SN	100				500		
	(20)				(96)		



Strathcona, Alberta, Canada

<i>Base Stock</i>				<i>Nominal Viscosity at 40C, cSt</i>			
	20	32	46	68	100	150	460
AMERICAS CORE		150					
		(30)					
SN					500	1400	



Newell, WV

Base Stock

	70	100	<i>Nominal Viscosity at 100F, SUS</i>					1,000	
	P70N		150	200	300	500	600		P150BS
	(68.8)								(2527) (151 AT 210F)
			(96)	(270)					



PBF Holding Co, LLC Paulsboro, NJ (Previously Owned by Valero)

Base Stock

straight cuts

	100	<i>Nominal Viscosity at 100F, SUS</i>					1,000	
	VP100	VP165			VP500	VP700		VP150BS
	(104)	(157)			(477)	(770)		(2620)

Base Stock

Blended

	2	4	<i>Nominal Viscosity at 100C, cSt</i>					12	40	100
			5	6	7	8	9	10		
			VP150	VP200	VP250	VP300	VP325, 350		VP610	
			(5.0)	(6.2)	(7.15)	(7.8)	(8.5), (8.7)		(11.9)	



MOL, Szazhalombatta, Hungary

Base Stock

	15	20	32	<i>Nominal Viscosity at 40C, cSt</i>					500
	5/95	5/95	10/95	46	68	100	150	250	
	SN85	SN100	SN150	SN200	SN350	SN500	SN600, SN650		
	(15.5)	(21)	(31.5)	()	(65)	(105)	()	(250)	

Base Stock

	2	4	<i>Nominal Viscosity at 100C, cSt</i>					10	12	20	30	40	100
			5	6	7	8	9		30/90				
									SN600	BS80	BS85P		

(13.0) (>28) (>29)



Lotos, Gdansk, Poland

Base Stock

20 32 46
SAE 10/95
(34)

Nominal Viscosity at 40C, cSt
68 100 150
SAE 30/95
(89)

500
SAE 30/90
(591)



CEPSA, San Roque, Spain

Base Stock

2 4 6 8

Nominal Viscosity at 100C, cSt
10 12 14 20

30 40 100
B.S.
(31.5)

Base Stock

20 32 46

Nominal Viscosity at 40C, cSt
68 100 150 500
600
(118)

Cauchoil

4
(30)

10
(118)

Base Stock

2 4 6 8

Nominal Viscosity at 100C, cSt
10 12 14 20

30 40 100
30
(31.5)

Cauchoil



Kuwait Petroleum, Europort (Rotterdam), The Netherlands

Base Stock

10
KPE 70 SN
(11.96)

20
KPE 100 SN
(20.0)

32 46
KPE 150 SN
(29.96)

68
KPE 300 SN
(58.8)

100 150
KPE 650 SN
(128.6)

500
KPE 150 BS
(31.3 cSt at 100C)



Cartagena, Spain

Base Stock

10	20	32	46	68	100	150	500
SP80	SN100	SN150		SN300	SN500D		BS170
(15.4)	(20.7)	(32.4)		(60.2)	(115.4)		(621)

Nominal Viscosity at 40C, cSt

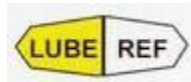


Puertollano, Spain

Base Stock

10	20	32	46	68	100	150	500
SP90	SN145		SN220		SN500		BS160
(11.4)	(23.4)		(43.4)		(98.5)		(524)

Nominal Viscosity at 40C, cSt



Jeddah, Saudi Arabia

Base Stock

20	32	46	68	100	150	500
100SN	150SN*			500SN*		
(21)	(29.5)			(96)		

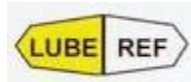
Nominal Viscosity at 40C, cSt

* Blend

Base Stock

2	4	5	6	8	10	12	14	20	30	40	100
									150BS		
									(32)		

Nominal Viscosity at 100C, cSt



Yanbu, Saudi Arabia

Base Stock

20	32	46	68	100	150	500
	150SN			500SN*		
	(29.5)			(96)		

Nominal Viscosity at 40C, cSt

* Blend

Base Stock

2	4	5	6	8	10	12	14	20	30	40	100
									150BS		
									(32)		

Nominal Viscosity at 100C, cSt



Tupras, Izmir, Turkey

Base Stock

4	5	Nominal Viscosity at 100C, cSt		6	8	10	12	14	20	30	40	100
Spindle	Light					Medium				Bright Stock		
(3.6)	(5.3)					(11)				(34)		



Behran Oil, Tehran, Iran

Base Stock

2	4	Nominal Viscosity at 100C, cSt		5	6	8	10	12	14	20	30	40	100
	SN90			SN150		SN350	SN500						
	(4.0)			(5.1)		(8.8)	(10.8)						



Sepahan Oil, Esfahan, Iran

Base Stock

2	4	Nominal Viscosity at 100C, cSt		5	6	8	10	12	14	20	30	40	100
								SN 500					
								(11.8)					



NIOC (Iranoil), Abadan & Tehran, Iran

Base Stock

2	4	Nominal Viscosity at 100C, cSt		5	6	8	10	12	14	20	30	40	100
				SN150			SN500	SN600					
				(5.7)			(10.8)	(13.0)					



Pars Oil, Tehran, Iran

Base Stock

2	4	Nominal Viscosity at 100C, cSt		5	6	8	10	12	14	20	30	40	100
						SAE20 (9+)	SAE30 (10.3)		SAE40 (13.5)				



Alexandria Mineral Oils Co., Alexandria, Egypt

Base Stock

2	4	5	Nominal Viscosity at 100C, cSt		6	8	10	12	14	20	30	40	100
		SN-150 (5.0)					SN-500 (9.7)						

Base Stock

20	32	Nominal Viscosity at 40C, cSt		46	68	100	150	500
						SN-600 (115)		



Haifa Basic Oils Ltd, Haifa, Israel

Base Stock

2	4	5	Nominal Viscosity at 100C, cSt		6	8	10	12	14	20	30	40	100
	SN90 (3.75)	SN150 (5.2)					SN300 (8.75)	SN500 (10.75)			Bright Stock (32)		



IRPC PLC. (PTT), Rayong, Thailand

Base Stock

10	20	32	Nominal Viscosity at 40C, cSt		46	68	100	150	500
60N (10.5)		150N (29.68)					500N (96.91)		150BS (486.97)



Thai Lube, Sriracha, Thailand

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>										
	4	5	6	8	10	12	14	20	30	40	100
	60SN	150SN			500SN				150BS		
	(10.2 40C)	(5.9)			(11.0)				(32.5)		



PETROBRAS

Petrobras, Duque de Caxias, Brazil

Base Stock

	<i>Nominal Viscosity at 40C, cSt</i>									
	10	20	32	46	68	100		150	500	
	PSP 09	PTL 25	PNL 30	PNM 55		PTP 85	PNP 95			
	(9.5)	(25)	(30)	(56)		(83.5)	(98)			

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>									
	10	12	14	20	30		40	60	100	
						PBS 33	PCL 45	PCL 60		
						(32.7)	(43.1)	(61)		



PETROBRAS

Petrobras, São Francisco do Conde, Bahia, Brazil

Base Stock

	<i>Nominal Viscosity at 40C, cSt</i>									
	10	20	32	46	68	100		150	500	
			PNL 30 RL	PNM 55 RL	PNM 80					
			(30)	(56)	(79)					

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>									
	10	12	14	20	30		40	60	100	
					PBS 30					
					(30)					



Pertamina, Cilacap, Indonesia

<i>Base Stock</i>	10	20	32	<i>Nominal Viscosity at 40C, cSt</i>			150	500
		SN130		46	68	100		BS150
				SN200		SN500		



Onsan, South Korea

<i>Base Stock</i>	2	4	6	<i>Nominal Viscosity at 100C, cSt</i>							
				8	10	12	14	28	40	100	150
Premium								P480 BS			
								(31.3)			



Shell, Pulau Bukom, Singapore

<i>Base Stock</i>	10	20	32	<i>Nominal Viscosity at 40C, cSt</i>			150	500
		HVI60		46	68	100		HVI650
		(SN150)			HVI 120	HVI160B		(BS150)
		(23)			(SN400)	(SN500)		(530.2)
						(96.9)		



Shell, Buenos Aires, Argentina

<i>Base Stock</i>	10	20	32	<i>Nominal Viscosity at 40C, cSt</i>				500
		HVI55	HVI60B	46	68	100	150	HVI650
		(SN100)	(SN150)		HVI95	HVI160B	HVI170	(BS150)
		(19.5)	(25.7)		(SN250)	(SN500)	(SN600)	(530.2)
					(56.1)	(96.9)	(124.1)	



YPF SA, La Plata, Argentina

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>									
2	4	6	8	10	12	14	28	40	100	150
	N 60	N 100	N 150	N 300	N 500		Bright Stock		Cilindro	
	(3)	(4)	(5)	(8)	(11)		(33)		(73)	



PetroChina (CNPC), China

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>										
2	3	4	5	6	8	10	12	14	28	40	100
			HVI 150	HVI 200		HVI 400					
			(5.28-5.4)	(6.1-6.3)		(9.2-9.6)					



Hindustan Petroleum Corporation Ltd., Mumbai, India

Base Stock

	<i>Nominal Viscosity at 40C, cSt</i>								
10	20	32	46	68	100	150	500		
		150 N							
		(30)							

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>								
2	4	6	8	10	12	14	28	40	100
			500 N			1200 N			
			(10.5)			(19)			



National Refinery Ltd. (NRL), Korangi, Pakistan

Base Stock

	<i>Nominal Viscosity at 40C, cSt</i>								
10	20	32	46	68	100	150	500		
65N-HVI	100N-HVI	150N-HVI							
(11)	(20)	(30)							

Base Stock

	<i>Nominal Viscosity at 100C, cSt</i>									
2	4	6	8	10	11	12	14	28	40	100
			400N-HVI	500N-HVI				BS-HVI		
			(9.9)	(11.0)				(34.5)		



NIPPON OIL
Your Choice of Energy

Base Stock

JX/Nippon, Mitsushima, Japan

10	20	32	<i>Nominal Viscosity at 40C, cSt</i>				
		150SN	46	68	100	150	500
		(28.27)			500SN		150BS
					(97.09)		(467.2)

JX/Nippon, Negishi, Japan

Base Stock

10	20	32	<i>Nominal Viscosity at 40C, cSt</i>				
		150SN	46	68	100	150	500
		(30.55)			500SN		150BS
					(93.94)		(522.6)



OJSC Naftan, Novopolotsk, Belarus

Base Stock

10	20	32	<i>Nominal Viscosity at 40C, cSt</i>				
		100 NS	46	68	100	150	500
			200 NS		450 NS	650 NS	