

## WHITE OIL PROPERTIES

PRODUCT	VISCOSITY		SPECIFIC GRAVITY ASTM D-4052 @ 25°C/25°C <sup>c</sup>	POUR POINT ASTM D-97 °C (°F)	FLASH POINT ASTM D-92 °C (°F)
	ASTM D-445 cSt @ 40°C <sup>a</sup>	ASTM D-2161 SUS @ 100°F <sup>b</sup>			
<b>USP MINERAL OIL</b>					
Hydrobrite <sup>®</sup> HV	360-420	2100	0.870/0.890	-6 (20)	288 (550)
Hydrobrite <sup>®</sup> 1000	180-240	1000	0.860/0.885	-6 (20)	288 (550)
Kaydol <sup>®</sup>	64-70	350	0.869/0.885	-21 (-5)	220 (430)
Gloria <sup>®</sup>	39-42	210	0.859/0.880	-18 (0)	204 (400)
Protol <sup>®</sup>	35-37	185	0.859/0.875	-18 (0)	202 (395)
<b>LIGHT MINERAL OIL, NF</b>					
Rudol <sup>®</sup>	28-30	150	0.852/0.870	-18 (0)	198 (390)
Ervol <sup>®</sup>	24-26	130	0.849/0.865	-18 (0)	190 (375)
Benol <sup>®</sup>	18-20	100	0.839/0.865	-21 (-5)	186 (365)
Blandol <sup>®</sup>	14-17	85	0.839/0.859	-21 (-5)	186 (365)
Carnation <sup>®</sup>	11-14	70	0.829/0.859	-24 (-10)	186 (365)
Klearol <sup>®</sup>	7-10	55	0.827/0.846	-24 (-10)	154 (310)
40 Oil	4-5	40	0.810/0.830	+3 (+35)	136 (275)

All above grades are stabilized with Vitamin E, have no odor or taste and are water white (Saybolt color +30), and meet FDA 21 CFR 172.878 and 21 CFR 178.3620(a) requirements. All above grades meet USP or NF with the exception of 40 Oil which can have a specific gravity below NF limits. We can supply products meeting the current requirements of BP, DAB, French Codex, EuP, Japanese, and other pharmacopoeias. Special viscosity and pour point oils are available on request.

## TYPICAL PROPERTIES OF STANDARD SONNEBORN<sup>®</sup> TECHNICAL GRADE WHITE OILS

PRODUCT	VISCOSITY		SPECIFIC GRAVITY ASTM D-4052 @ 25°C/25°C <sup>c</sup>	POUR POINT ASTM D-97 °C (°F)	FLASH POINT ASTM D-92 °C (°F)
	ASTM D-445 cSt @ 40°C <sup>a</sup>	ASTM D-2161 SUS @ 100°F <sup>b</sup>			
<b>TECHNICAL GRADE</b>					
Semtol <sup>®</sup> 500	90-125	580	0.860/0.880	-12 (10)	270 (520)
Semtol 400	70-90	380	0.860/0.876	-12 (10)	250 (480)
Semtol 350	65-70	350	0.869/0.885	-21 (-5)	220 (430)
Semtol 100	18-20	100	0.839/0.855	-21 (-5)	186 (365)
Semtol 85	14-17	85	0.839/0.855	-21 (-5)	186 (365)
Semtol 70	11-14	70	0.834/0.845	-24 (-10)	186 (365)
Semtol 40	4-6	40	0.804/0.827	-42 (-40)	136 (275)
Freezene <sup>®</sup> 200	36-40	200	0.870/0.886	-42 (-40)	190 (375)