



WHITE OILS

White oils are among the most versatile products in the world, making them a standard preference across diverse industries. Due to their extreme purity, white oils provide an effective use as a base, emollient, lubricant, release agent, binder, or excipient in multiple product applications.

Calumet white oils of specific viscosities are refined to meet the purity specifications of the USP/NF monographs and FDA standards.

- A trusted key ingredient for more than 100 years.
- Heavily credentialed to meet global standards.
- We use the highest quality ingredients from reliable sources to ensure traceability.
- Multiple manufacturing sites ensure dependable supply sourcing.
- Our manufacturing process delivers not only a high purity and safe product but is also very stable over time.

APPLICATIONS

- | | | |
|-----------------------|-------------------|-------------------------------|
| ■ Lubricants | ■ Water Treatment | ■ Personal Care and Cosmetics |
| ■ Metalworking Fluids | ■ Adhesives | ■ Pharmaceuticals |
| ■ Paints and Coatings | ■ Greases | ■ Plastics and Packaging |
| ■ Sealants | | |

WHITE OILS

MINERAL OIL USP

PROPERTIES	METHOD	DRAKEOL® 19	DRAKEOL 21	DRAKEOL 32	DRAKEOL 34	DRAKEOL 35	DRAKEOL 350	DRAKEOL 600
Viscosity @ 100 °F (SUS)	D2161	180/190	200/215	312/330	370/410	340/365	350/370	515/625
Viscosity @ 40 °C (cSt)	D7042	34.9/37.3	38.4/41.5	60.0/63.3	72.0/79.5	65.8/71.0	66.7/71.2	99.0/120.0
Specific Gravity @ 25/25 °C	D4052	0.8520/0.8760	0.8530/0.8760	0.8560/0.8760	0.8580/0.8720	0.8640/0.8810	0.8570/0.8730	0.8600/0.8780
Flash Point, COC (°F)	D92	410	420	440	475	465	min 400	505
Flash Point, COC (°C)	D92	210	215	226	246	240	min 206	263
Pour Point (°F)	D97	5	5	5	5	5	10	10
Pour Point (°C)	D97	-15	-15	-15	-15	-16	-15	-12
FDA 21 CFR 172.878	FDA	PASS	PASS	PASS	PASS	PASS	PASS	PASS

LIGHT MINERAL OIL NF

PROPERTIES	METHOD	PENETECK	DRAKETEX 50	DRAKEOL 5	DRAKEOL 6 VR	DRAKEOL 7	DRAKEOL 9	DRAKEOL 10B	DRAKEOL 10	DRAKEOL 13	DRAKEOL 15
Viscosity @ 100 °F (SUS)	D2161	39.5/44	48/53	50.2/60	10.0/10.6*	65/75	80/90	95/105	102/115	125/135	145/155
Viscosity @ 40 °C (cSt)	D7042	3.9/5.3	6.5/7.8	7.0/9.6	9.4/10.0	10.8/13.6	14.2/17.0	17.7/20.2	19.0/21.9	24.2/26.3	28.1/30.3
Specific Gravity @ 25/25 °C	D4052	0.8210/0.8370	0.8200/0.8610	0.8180/0.8610	0.8340/0.8380	0.8330/0.8610	0.8330/0.8610	0.8670/0.8840	0.8380/0.8640	0.8480/0.8670	0.8500/0.8730
Flash Point, COC (°F)	D92	290	325	335	350	360	385	340	415	400	405
Flash Point, COC (°C)	D92	207	204	212	173	196	182	177	168	163	143
Pour Point (°F)	D97	-25	-20	-20	-20	-10	0	-25	5	5	5
Pour Point (°C)	D97	-33	-12	-12	-29	-26	-26	-31	-16	-15	-15
FDA 21 CFR 172.878	FDA	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

*Valued in cSt

TECHNICAL MINERAL OIL

PROPERTIES	METHOD	PAROL® 100	PAROL 80	PAROL 70	4463 OIL	6970 OIL	6970 LP OIL
Viscosity @ 100 °F (SUS)	D2161	100/115	75/90	65/75	42/59	50/75	50/75
Viscosity @ 40 °C (cSt)	D7042	20.32*	15.53*	10.80/13.60	-	-	9.40*
Specific Gravity @ 25/25 °C	D4052	0.8441*	-	0.8330/0.8610	-	-	-
Specific Gravity @ 60/60 °F	D4052	-	0.8494*	0.8361*	0.8350/0.8708	0.8760	0.8200/0.8760
Flash Point, COC (°F)	D92	400	380	365	325	340	330
Flash Point, COC (°C)	D92	204	193	185	162	171	165
Pour Point (°F)	D97	5	0	-10	-25	-25	-25
Pour Point (°C)	D97	-21	-21	-23	-31	-31	-31
FDA 21 CFR 178.3620(B)	FDA	PASS	PASS	PASS	-	PASS	PASS

*Typical values

Calumet specializes in NICHE PRODUCT BLENDING to meet customer or monograph (including, not limited to USP/NF, EP, JP) specific requirements.

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REGULATORY INFORMATION

- White mineral oil is included on the TSCA Inventory.
- The CAS number for all products listed above is 8042-47-5.
- See Safety Data sheet for additional health, safety and disposal information.
- All Drakeol® products, Draketex™ 50, and Penetec® meet the following FDA regulations: 21 C.F.R. § 172.878 regarding direct food additives, 21 C.F.R. § 178.3620 (a) regarding indirect food additives, and 21 C.F.R. § 573.680 regarding animal food additives and H1 food processing lubricant standards. Penreco technical mineral oils meet 21 C.F.R. § 178.3620 (b) regarding indirect food additives and 21 C.F.R. § 573.680 regarding animal food additives.
- All Drakeol products are inhibited with less than 20 ppm dl-alpha tocopherol (vitamin E).

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