



## WHITE OILS

# FORMULATING LASTING PARTNERSHIPS

## TRUSTED SECURE SOLUTIONS

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.

**Experience the Penreco difference.** Penreco white oils of specific viscosities are refined to meet the purity specifications of the USP/NF 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 ensures dependable supply sourcing.
- Our manufacturing process delivers not only a high purity and safe product but is also very stable over time.



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**penreco**<sup>®</sup>

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To request a sample, visit [penreco.com](http://penreco.com).

# WHITE OILS

## APPLICATIONS

- Cosmetics ■ Pharmaceuticals ■ Food ■ Plastics & Elastomers ■ Personal Care ■ Veterinary ■ Textile Lubricants
- Adhesives ■ Household Cleaners

## TYPICAL PROPERTIES

|                              | VISCOSITY                  |                           | SPECIFIC GRAVITY<br>ASTM D4052<br>@ 77 °F | FLASH POINT ASTM D92<br>(Typical) |     | POUR POINT ASTM D97<br>(Typical) |     |
|------------------------------|----------------------------|---------------------------|---|-----------------------------------|-----|----------------------------------|-----|
|                              | ASTM D7042<br>SUS @ 100 °F | ASTM D7042<br>cSt @ 40 °C |   | °F                                | °C  | °F                               | °C  |
| <b>MINERAL OIL USP</b>       |                            |                           |   |                                   |     |                                  |     |
| Drakeol 600                  | 515/625                    | 99.0/120.0                | 0.8600/0.8780                             | 507                               | 264 | 11                               | -12 |
| Drakeol 350                  | 350/370                    | 66.7/71.2                 | 0.8570/0.8730                             | 469                               | 243 | 5                                | -15 |
| Drakeol 35                   | 340/365                    | 65.8/71.0                 | 0.8640/0.8810                             | 467                               | 242 | 3                                | -16 |
| Drakeol 34                   | 370/410                    | 72.0/79.5                 | 0.8580/0.8720                             | 478                               | 248 | 5                                | -15 |
| Drakeol 32                   | 312/330                    | 60.0/63.3                 | 0.8560/0.8760                             | 459                               | 237 | 5                                | -15 |
| Drakeol 21                   | 200/215                    | 38.4/41.5                 | 0.8530/0.8760                             | 439                               | 226 | 5                                | -15 |
| Drakeol 19                   | 180/190                    | 34.9/37.3                 | 0.8520/0.8760                             | 434                               | 223 | 5                                | -15 |
| <b>LIGHT MINERAL OIL NF</b>  |                            |                           |   |                                   |     |                                  |     |
| Drakeol 15                   | 145/155                    | 28.1/30.3                 | 0.8500/0.8730                             | 407                               | 208 | 5                                | -15 |
| Drakeol 13                   | 125/135                    | 24.2/26.3                 | 0.8480/0.8670                             | 391                               | 199 | 5                                | -15 |
| Drakeol 10                   | 102/115                    | 19.0/21.9                 | 0.8380/0.8640                             | 407                               | 208 | 3                                | -16 |
| Drakeol 10B                  | 95/105                     | 17.7/20.2                 | 0.8670/0.8840                             | 333                               | 167 | -23                              | -31 |
| Drakeol 9                    | 80/90                      | 14.2/17.0                 | 0.8330/0.8610                             | 391                               | 199 | -15                              | -26 |
| Drakeol 7                    | 65/75                      | 10.8/13.6                 | 0.8330/0.8610                             | 369                               | 187 | -15                              | -26 |
| Drakeol 6 VR                 | 10.0/10.6*                 | 9.4/10.0                  | 0.8340/0.8380                             | 348                               | 176 | -20                              | -29 |
| Drakeol 5                    | 50.2/60.0                  | 7.0/9.6                   | 0.8180/0.8610                             | 337                               | 169 | 10                               | -12 |
| Draketex 50                  | 48.0/53.0                  | 6.5/7.8                   | 0.8200/0.8610                             | 320                               | 160 | 10                               | -12 |
| Penetec                      | 39.5/44                    | 3.9/5.3                   | 0.8210/0.8370                             | 305                               | 152 | -27                              | -33 |
| <b>TECHNICAL MINERAL OIL</b> |                            |                           |   |                                   |     |                                  |     |
| Parol® 100                   | 100/115                    | 20.3                      | 0.8440                                    | 407                               | 208 | -5                               | -21 |
| Parol 80                     | 75/90                      | 15.3                      | 0.8500                                    | 381                               | 194 | -5                               | -21 |
| Parol 70                     | 65/75                      | 10.8/13.6                 | 0.8330/0.8610                             | 369                               | 187 | -9                               | -23 |
| 4463 Oil                     | 42/59                      | -                         | 0.8490                                    | 325                               | 162 | 50                               | 10  |
| 6970 Oil                     | 50/75                      | -                         | 0.8460                                    | 349                               | 176 | -30                              | -34 |
| 6970 LP Oil                  | 50/75                      | 9.4                       | 0.8410                                    | 337                               | 169 | -30                              | -34 |

\*reported in cSt

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

### 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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