



Valero VP Lubricant Base Oils Straight Cut Specifications

The Valero VP paraffinic oil product line is manufactured via distillation, solvent extraction and catalytic dewaxing of a consistent crude source. The Valero VP paraffinic oils are available in a wide range of viscosities and are commonly used as lubricant base oils in automotive, railroad, industrial and marine engine oils and/or as process oils by the rubber, paper and chemical industries.

| Valero VP | | 100 | 165 | 500 | 700 | 150 BS |
|------------------|---------------------------|------------------------------|----------------------------|----------------------------|----------------------------|---------------------------|
| | | 100" Solvent Neutral | 165" Solvent Neutral | 500" Solvent Neutral | 700" Solvent Neutral | 150" Solvent Bright |
| METHOD | TEST | SPECIFICATIONS | | | | |
| VISUAL | Appearance | ←----- CLEAR & BRIGHT -----> | | | | |
| D4052 | API Gravity | 33.1 TYP | 30.2 TYP | 28.7 TYP | 26.8 TYP | 24.9 TYP |
| D445 | Viscosity @ 40 °C, cSt | 18.6/21.0 | 29.2/34.2 | 91.5 TYP | 146.4 TYP | 488.0 TYP |
| | @ 100 °C, cSt | 4.0 TYP | 5.4 TYP | 10.1/11.6 | 13.0/15.0 | 30.6/32.7 |
| D2270 | Viscosity Index | 95 MIN | 95 MIN | 95 MIN | 90 MIN | 95 MIN |
| D5293 | CCS @ -25°C, Cp | 1500 MAX | 2800 MAX | | | |
| | CCS @ -20°C, Cp | | | | | |
| D97 | Pour Point, °C | -18 MAX | -9 MAX | -6 MAX | -6 MAX | -3 MAX |
| D92 | COC Flash Pt, °C | 193 MIN 206 TYP | 215 MIN 220 TYP | 226 MIN 259 TYP | 232 MIN 272 TYP | 293 MIN 306 TYP |
| D4294 | Sulfur, Wt.% | 0.4% MAX | 0.45% MAX | | | |
| D1500 | ASTM Color | L0.5 TYP/1.5 MAX | L0.5 TYP/ 1.5 MAX | L1.0 TYP/ 2.0 MAX | L1.5 TYP/ 2.5 MAX | L3.0 TYP/ 5.5 MAX |
| D5800 | Noack Vol, Wt.% | 29.5 MAX | 19.0 MAX | | | |

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