



Valero VP Lubricant Base Oils

Blended Oil Typical Properties

Automotive Series:

| Valero VP | | 150 | 200 | 250 | 300 | 325 | 350 | 610 |
|------------------|-----------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 150" Solvent Neutral | 200" Solvent Neutral | 250" Solvent Neutral | 300" Solvent Neutral | 325" Solvent Neutral | 350" Solvent Neutral | 610" Solvent Neutral |
| METHOD | TEST | TYPICAL PROPERTIES | | | | | | |
| VISUAL | Appearance | < ----- CLEAR & BRIGHT ----- > | | | | | | |
| D4052 | API Gravity | 30.8 | 29.7 | 29.5 | 29.4 | 28.9 | 28.8 | 27.4 |
| CALC | Lbs/Gallon @ 60°F/15.6°C | 7.27 | 7.32 | 7.33 | 7.33 | 7.35 | 7.36 | 7.42 |
| D445 | Viscosity @ 40°C, cSt | 29.0 | 40.1 | 50.0 | 57.2 | 64.8 | 68.0 | 113.5 |
| D445 | Viscosity @ 100°C, cSt | 5.0 | 6.2 | 7.15 | 7.8 | 8.5 | 8.7 | 11.9 |
| D2270 | Viscosity Index | 97 | 100 | 99 | 99 | 99 | 99 | 93 |
| D97 | Pour Point, °F/C | 20/-6.7 | 20/-6.7 | 20/-6.7 | 20/-6.7 | 20/-6.7 | 20/-6.7 | 20/-6.7 |
| D92 | COC Flash Point, °F/C | 395/202 | 435/224 | 445/229 | 460/238 | 460/246 | 475/246 | 500/260 |
| D1500 | ASTM Color | L0.5 | L1.0 | L1.0 | L1.0 | L1.0 | L1.0 | L1.5 |

Industrial Series:

| Valero VP | | 230i | 330i | 340i | 360i | 400i | 500i | 600i |
|------------------|-----------------------------|--------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | 230" Solvent Neutral | 330" Solvent Neutral | 340" Solvent Neutral | 360" Solvent Neutral | 400" Solvent Neutral | 500" Solvent Neutral | 600" Solvent Neutral |
| METHOD | TEST | TYPICAL PROPERTIES | | | | | | |
| VISUAL | Appearance | < ----- CLEAR & BRIGHT ----- > | | | | | | |
| D4052 | API Gravity | 29.2 | 28.4 | 28.4 | 28.1 | 28.2 | 27.5 | 27.2 |
| CALC | Lbs/Gallon @ 60°F/15.6°C | 7.34 | 7.38 | 7.38 | 7.39 | 7.39 | 7.42 | 7.43 |
| D445 | Viscosity @ 40°C, cSt | 45.6 | 64.9 | 66.5 | 69.2 | 76.1 | 97.0 | 113.4 |
| | @ 100°C, cSt | 6.7 | 8.4 | 8.5 | 8.7 | 9.2 | 10.8 | 11.9 |
| D2270 | Viscosity Index | | 98 | 98 | 97 | 96 | 93 | 93 |
| D97 | Pour Point, °F/C | 20/-7 | 20/-7 | 20/-7 | 20/-7 | 20/-7 | 20/-7 | 20/-6.7 |
| D92 | COC Flash Point, °F/C | 445/229 | 455/235 | 455/235 | 465/241 | 460/238 | 465/241 | 470/243 |
| D1500 | ASTM Color | L1.0 | L1.0 | L1.0 | L1.0 | L1.0 | L1.0 | L1.0 |

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