



Optileb V Range

Physiologically safe, fully synthetic compressor oils

Description

Castrol Optileb™ V are fully synthetic compressor oils based on polyalphaolefin basestocks of ISO viscosity grades 46, 68 and 100 for the lubrication of compressors in the food and beverage and pharmaceutical industries. They are formulated only with raw materials which are in conformity with NSF H1 requirements for incidental contact with foodstuffs.

Application

- Screw-type, reciprocating and sliding vane air compressors

Conditions of Use

- Please observe the viscosity guidelines specified by the manufacturer.
- CASTROL OPTILEB V series are compatible with conventional plastics and sealing materials which resistant to low-viscous mineral oils.
- During changeover from a standard mineral oil-based product to CASTROL OPTILEB V series please flush the system thoroughly and monitor the condition of filters.

Advantages

- NSF H1 approved
- Halal and Kosher approved.
- Odorless, tasteless and colorless
- Compatible with sealing materials resistant to mineral oils
- High viscosity index, low viscosity-temperature dependence
- High oxidation stability
- Minimum residue formation
- Excellent water separation ability
- Good wear protection
- Compatible with mineral oil
- Extended service life in comparison with mineral oil

Typical Characteristics

| Name | Method | Units | V 46 | V 68 | V 100 |
|--|------------------------|--------------------|------------|------------|------------|
| Colour | ASTM D1500 | - | Colourless | Colourless | Colourless |
| Base Oil | - | - | PAO | PAO | PAO |
| ISO Viscosity Grade | - | - | 46 | 68 | 100 |
| Density @ 15°C / 59°F | ISO 12185 / ASTM D4052 | kg/m ³ | 834 | 837 | 845 |
| Kinematic Viscosity @ 40°C / 104°F | ISO 3104 / ASTM D445 | mm ² /s | 46.81 | 66.23 | 95.45 |
| Kinematic Viscosity @ 100°C / 212°F | ISO 3104 / ASTM D445 | mm ² /s | 7.8 | 10.26 | 13.62 |
| Viscosity Index | ISO 2909 / ASTM D2270 | - | 136 | 141 | 144 |
| Pour Point | ISO 3016 / ASTM D97 | °C/°F | -48/-54 | -45/-49 | -45/-49 |
| Flash Point - open cup method | ASTM D2592 / ASTM D92 | °C/°F | 242/468 | 242/468 | 242/468 |
| Carbon residue - Conradson test - after air ageing | DIN 51352-2 | %wt | 0.13 | 0.13 | 0.13 |
| Water Separation @ 54°C / 129°F (40/37/3) | ISO 6614 / ASTM D1401 | min | 6.5 | 11 | - |
| Water Separation @ 82°C / 180°F (40/37/3) | ISO 6614 / ASTM D1401 | min | - | - | 3.5 |

Subject to usual manufacturing tolerances.

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