

Automotive Lubricants Range

1. PRODUCT DESCRIPTION

AISO Automotive Lubricants represent a comprehensive range of premium-quality engine oils, transmission fluids, gear oils, and ancillary automotive lubricants. Formulated using high-quality base oils and advanced additive technology, the range meets or exceeds the most stringent international performance standards including API, ACEA, and JASO classifications.

2. KEY FEATURES

- API SP / SN+ certified engine oils -- latest gasoline engine protection
- API CK-4 / CJ-4 heavy duty diesel oils -- Euro VI and Tier 4 Final compliant
- ACEA A1/B1, A3/B3, A3/B4, A5/B5 compliant formulations
- Full synthetic, semi-synthetic, and mineral-base oil options
- Extended drain interval capability -- up to 30,000 km intervals
- Low-SAPS formulations compatible with DPF and GPF systems
- OEM approval grades including BMW LL-04, VW 504/507, MB 229.5
- JASO MA2 and MA certified motorcycle oils
- Multi-grade viscosity range from 0W-16 to 20W-50

3. APPLICATIONS

- Passenger car gasoline and diesel engines -- all major OEMs
- Commercial vehicles, trucks, and buses -- Euro IV, V, VI
- Motorcycles -- 2-stroke and 4-stroke with wet-clutch systems
- Light and heavy duty commercial vehicle transmissions
- Automotive manual and automatic gearboxes (ATF range)
- Power steering systems and hydraulic circuits
- Agricultural and off-highway diesel equipment

4. TYPICAL PROPERTIES (REPRESENTATIVE GRADE: 5W-40 FULL SYNTHETIC)

| Property                               | Typical Value       |
|----------------------------------------|---------------------|
| Kinematic Viscosity @ 40 degC (mm2/s)  | ~85-100             |
| Kinematic Viscosity @ 100 degC (mm2/s) | ~14.0-16.0          |
| Viscosity Index                        | >= 170              |
| Cold Cranking Viscosity (CCS)          | Meets SAE 5W        |
| Flash Point (COC, degC)                | >= 220              |
| Pour Point ( degC)                     | <= -42              |
| Density @ 15 degC (kg/L)               | ~0.860              |
| Total Base Number (TBN, mg KOH/g)      | ~10.0-12.0          |
| Sulphur Content (wt%)                  | < 0.5 (Low-SAPS)    |
| Colour                                 | Amber / Amber-Brown |

5. AVAILABLE GRADES & VISCOSITIES

- Engine Oils: 0W-16, 0W-20, 5W-20, 5W-30, 5W-40, 10W-30, 10W-40, 15W-40, 20W-50
- Gear Oils: 75W-90, 75W-140, 80W-90, 85W-140
- ATF: Dexron III / VI, Mercon V, ZF TE-ML 09, Toyota T-IV equivalents
- Hydraulic & Power Steering: ISO VG 22, 32, 46, 68

## 6. PACKAGING

- 1 Litre bottles (retail)
- 4 Litre / 5 Litre containers (retail / workshop)
- 20 Litre jerry cans (workshop / trade)
- 200 Litre steel drums (industrial / distributor)
- IBC bulk containers available on request

## 7. STORAGE & HANDLING

Store in a cool, dry, well-ventilated location away from direct sunlight and ignition sources. Keep containers tightly closed when not in use. Avoid contamination with water or incompatible products. Rotate stock and observe "use by" date on packaging. Shelf life: 5 years from manufacture in original sealed containers.

### DISCLAIMER

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