

**HIGH-PERFORMANCE FLUID FOR DUAL-CLUTCH TRANSMISSIONS (DCT/DSG)**

# WINDIGO ATF DCT/DSG

**High-performance transmission fluid for dual-clutch transmissions (DCT/DSG) based on modern synthetic technology.**

WINDIGO ATF DCT/DSG is based on modern synthetic base oils and a specially developed, innovative additive package designed for the high torque of modern dual-clutch transmissions and for the wear and friction requirements of oil-bath wet clutches.

Optimal friction behaviour that remains stable even at high temperatures ensures reliable, slip-free power transfer under all operating conditions. A high viscosity index combined with excellent cold-shift behaviour, as well as outstanding protection against wear, corrosion and oxidation, maintain the integrity of the oil and stable lubrication over a long service life, extending the service life of the mechanical components.

Enhanced with the **ECO Universal Oil Package** for additional wear protection and reduced friction losses.

## AREAS OF APPLICATION

- Dual-clutch transmissions (DCT/DSG)
- Oil-bath wet clutches
- Passenger cars with dual-clutch transmission

## BENEFITS

- Optimal friction behaviour, stable even at high temperatures
- Slip-free power transfer under all operating conditions
- Outstanding wear protection
- High viscosity index and excellent cold shifting
- Very good protection against corrosion and oxidation
- Extended service life of mechanical components

**Not intended for conventional stepped automatic transmissions or continuously variable transmissions (CVT).**

## APPLICATION RECOMMENDATIONS

- Audi / Seat / Skoda / VW — VW TL 052 182, VW TL 052 529
- BMW (Getrag) 83 22 2 148 578, 83 22 2 148 579, 83 22 0 440 214, 83 22 2 147 477 (BMW DCTF-1)
- Chrysler 68044345EA
- Citroën / Peugeot 9734.S2
- Ferrari TF DCT-F3
- Fiat BOT 341
- Ford / Getrag / Nissan — Ford M2C936A
- Mercedes-Benz MB 236.21, MB 236.25
- Mitsubishi Dia-Queen SSTF-I (MZ320065)
- Porsche (ZF) FFL-3
- Renault BOT 450
- Volvo 1161838, 1161839

## TECHNICAL DATA - WINDIGO ATF DCT/DSG

| Property                                | Test method      | Value                         |
|-----------------------------------------|------------------|-------------------------------|
| Density at 15°C                         | DIN EN ISO 12185 | 0.852-0.862 g/cm <sup>3</sup> |
| Dynamic viscosity (Brookfield) at -40°C | ASTM D2983       | 12 000 mPa·s                  |
| Kinematic viscosity at 100°C            | DIN 51562-1      | 6.5-7.5 mm <sup>2</sup> /s    |
| Viscosity index                         | DIN ISO 2909     | 163                           |
| Base number (TBN)                       | DIN ISO 3771     | 6.1 mg KOH/g                  |
| Flash point COC                         | DIN ISO 2592     | min. 180°C                    |
| Pour point                              | DIN ISO 3016     | -48°C                         |

*The information in this description corresponds to the current state of our knowledge and is intended to provide the technically experienced user with guidance on possible applications. Assurances of properties and warranties are excluded without prior clarification of the specific intended use and operating conditions. Subject to change in the course of technical development.*