

TRANSMISSION FLUID



PENTOSIN FFL-3

Fully Synthetic Double Clutch (PDK) Transmission Fluid

DESCRIPTION

Pentosin FFL-3 is the only approved first fill and service fill transmission fluid for the new generation of Porsche double clutch gear transmissions (PDK). Pentosin FFL-3 is founded on a fully synthetic base oil technology for safe operation at even the highest thermal load. FFL-3 features a special clutch friction performance which makes it mandatory to be applied solely to the double clutch gear box – do not mix with any other gear oils. Pentosin FFL-3 can be used where BMW MTF-LT-5 manual transmission fluid is specified.

PRODUCT ATTRIBUTES

| | |
|------------------------------|-------------------------|
| Appearance | Amber & Clear |
| Density at 15°C | 842 kg/m ³ |
| Density at 20°C | 840 kg/m ³ |
| Kinematic Viscosity at 100°C | 7 mm ² /s |
| Kinematic Viscosity at 40°C | 34.7 mm ² /s |
| Kinematic Viscosity at 20°C | 68 mm ² /s |
| Viscosity Index | 168 |
| Dynamic Viscosity at -40°C | 7400 mPa*s |
| Pour Point | -54°C/-65.2°F |
| Flash Point | 220°C/428°F |
| Boiling Point | >200°C/>392°F |
| pH Value | N/A |

| SIZE | PART NUMBER | GTIN-13 |
|----------|-------------|---------------|
| 1 Liter | 1052107 | 4008849174117 |
| 20 Liter | 1052208 | 4008849174124 |

OE REFERENCE NUMBERS/RECOMMENDATIONS

| Make | Reference Number |
|---------|------------------|
| BMW | 83 22 2 156 969 |
| BMW | 83 22 2 239 654 |
| BMW | 83 22 2 239 655 |
| Porsche | 000 043 305 13 |
| Porsche | 000 043 305 14 |
| Porsche | 000 043 207 29 |
| Porsche | 000 043 207 30 |

APPROVALS/SPECIFICATIONS

| Organization Name | Specification Met |
|-------------------|-------------------|
| Porsche | 0000043020 |
| ZF | TE-ML 11 |

Always consult the vehicle owner's manual to identify fluid specification requirements. MSDS available to professional repair technician upon request.

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OE-quality brands for import applications.