**PENTOSIN FFL-4**

Fully Synthetic Double Clutch (DCT) Transmission Fluid

**DESCRIPTION**

Pentosin FFL-4 is the only approved First Fill and Service Fill transmission fluid for the new generation of BMW double clutch gear transmissions (DCT). Pentosin FFL-4 is founded on a fully synthetic base oil technology for safe operation at even the highest thermal load. FFL-4 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.

**PRODUCT ATTRIBUTES**

- **Appearance**: Amber & Clear
- **Density at 15°C**: 842 kg/m³
- **Density at 20°C**: 839 kg/m³
- **Kinematic Viscosity at 100°C**: 7 mm²/s
- **Kinematic Viscosity at 40°C**: 34.7 mm²/s
- **Kinematic Viscosity at 20°C**: 83.9 mm²/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
- **pH Value**: N/A

**SIZE** | **PART NUMBER** | **GTIN-13**
---|---|---
1 Liter | 1080107 | 4008849173332
20 Liter | 1080208 | 4008849173431

**OE REFERENCE NUMBERS/RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>Make</th>
<th>Reference Number</th>
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</thead>
<tbody>
<tr>
<td>BMW</td>
<td>83 22 0 440 214</td>
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<tr>
<td>BMW</td>
<td>83 22 2 147 477</td>
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Always consult the vehicle owner’s manual to identify fluid specification requirements. MSDS available to professional installer upon request.