



# 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/m <sup>3</sup>   |
| Density at 20°C              | 839 kg/m <sup>3</sup>   |
| Kinematic Viscosity at 100°C | 7 mm <sup>2</sup> /s    |
| Kinematic Viscosity at 40°C  | 34.7 mm <sup>2</sup> /s |
| Kinematic Viscosity at 20°C  | 83.9 mm <sup>2</sup> /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

| Make | Reference Number |
|------|------------------|
| BMW  | 83 22 0 440 214  |
| BMW  | 83 22 2 147 477  |

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

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