



Technical Data Sheet

CASTROL BOT 402

DESCRIPTION / APPLICATION:

Castrol BOT 402 is a fully synthetic SAE 75W-85 manual transmission fluid.

Castrol BOT 402 can be recommended for most manual transmissions where API GL-4 lubricants are required. Castrol BOT 402 meets Opel's requirements for use in the manual transmission of all front wheel drive (FWD) and rear wheel drive (RWD) passenger cars worldwide.

BENEFITS:

- Smoother and easier gear shift due to a combination of reduced shifting forces and optimal synchronisation.
- Reduced torque loss increases efficiency over all transmission load ranges.
- Increased wear protection of synchronizer and bearings during startup phase.
- Fuel saving potential – less fuel consumption means lower emissions.
- Improved shift comfort and prevention of “synchroniser clash” during gear change at a wide range of ambient temperatures and operating conditions.
- Extended synchroniser life reduces warranty and maintenance costs.
- Optimal lubrication of transmission components enhances performance and life.
- Maintains noise reduction (eg : in-gear rattle; idling rattle), improved driver satisfaction.
- Excellent transmission cleanliness and longer oil life permit decreased servicing.
- Longer oil and component life permit extended drain and decreased servicing.
- Helps protect surface of moving parts, extending transmission life.
- Helps avoid oil leakages, reducing repair costs.
- Better environmental compatibility – easier waste oil disposal and recyclability.

FEATURES:

- Excellent cold flow properties combined with balanced frictional characteristics.
- Excellent synchroniser performance and maintained frictional properties during lifetime.
- High shear stability.
- Excellent thermal and oxidative stability.
- Temperature reduction through reduced friction.
- Good anti-pitting behaviour
- Good seal compatibility.
- Free from chlorine and heavy metals.

SPECIFICATIONS AND APPROVALS:

- SAE 75W-85
- API GL-4
- Meets Opel specification B 040 2071

TYPICAL CHARACTERISTICS:

Castrol BOT 402	
Product Code	12625
Density at 15°C (kg/l)	0.871
Colour	Red
Viscosity at 40°C (mm ² /s)	75.6
Viscosity at 100°C (mm ² s)	13.1
Viscosity Index	178
Viscosity at -10°C (mm ² s)	1.435
Brookfield Viscosity at -40°C (mPa.s)	48.200
Pour Point (°C)	-45
Flash Point (°C)	220
FZG A8.3/90 (Load Stage)	12
Taper Roller Bearing (TRB) Test	
Viscosity at 100°C after 192 hours TRB (mm ² s)	11.0

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