



PRODUCT DATA SHEET

GEAR OIL 75W/90 GL-5

PRODUCT DESCRIPTION

Hi-Tec Gear Oil 75W/90 GL-5 is a superior API GL-5 gear oil designed to provide:

- Excellent thermal stability
- Much Improved oil seal life
- Much Improved durability (gear surface life)
- Much Improved corrosion protection to yellow metals under both wet and dry conditions.

All of these improvements overcome the growing concerns of the gear manufacturers (OEMs - Original Equipment Manufacturers), vehicle and fleet owners relative to these performance areas when operating with the former generation of conventional hypoid extreme pressure drive train lubricants.

Hi-Tec Gear Oil 75W/90 GL-5 is specified for the lubrication of car, truck and tractor differentials and other final drives, transfer and steering gearboxes and manual transmissions. Special oxidation resistant paraffinic-base oils combined with high performance extreme pressure (EP) additives are formulated in Hi-Tec Gear Oil 75W/90 GL-5 to ensure long service life to transmission drive lines.

BENEFITS

Hi-Tec Gear Oil 75W/90 GL-5 avoids lubricant-related high temperature degradation problems of "cooked" transmission synchronisers and reduced oil flow to gear and bearings (due to obstructed oil passageways or filters) so that costly transmission failures associated with lubricant do not occur.

Hi-Tec Gear Oil 75W/90 GL-5 provides excellent long term protection against pitting fatigue, which is the life-limiting variable of a gear set. OEM's recognise that lubricant protection against pitting is a very important design variable for long transmission life.

Corrosion protection is afforded by Hi-Tec Gear Oil 75W/90 GL-5 to copper alloys under both wet and dry conditions. The 'stay-on' properties of the high film strength Hi-Tec Gear Oil 75W/90 GL-5 effectively quietens transmission drive-line noise tendencies under conditions of low speed high torque, high speed low torque and shock loading.

Hi-Tec Gear Oil 75W/90 GL-5 avoids the natural development of foam in transmission service. Foam is undesirable because it promotes ineffective gear lubrication with resultant premature wear.

BENEFITS

THERMAL STABILITY. Hi-Tec Gear Oil 75W/90 GL-5 provides protection against the formation of sludge, oxidation and carbonaceous deposit build-up and excessive viscosity increases, thereby ensuring long service life of transmission components. Thermal stresses on gear oils in modern high performance transmissions have increased due to the following:

- Change in vehicle aerodynamics
- Wider use of driveline retarders
- Increased "Power Density" for transmission and rear axles
- Extended slow speeds and high loads
- Higher ambient temperatures
- Higher horse-power
- Extended warranties/reduced maintenance etc.

Excessive heat build up can occur (up to 180°C), resulting in oil degradation and increased friction and wear.





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

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SPECIFICATIONS

Hi-Tec Gear Oil 75W/90 GL-5 meets the following demanding performance requirements:

API GL-5

ZF TE-ML-07A, TE-ML-08

Military specification: MIL-L-2105D.

Always consult your vehicle owner's manual for the manufacturer's lubricant recommendations.

TYPICAL PROPERTIES

Property	Results
Appearance	Natural
Density (kg/Lt) @ 15°C	0.870
Viscosity (cSt) @ 40°C	111
@ 100°C	15.0
Viscosity Index	140
Copper Strip Corrosion – 3 hours @ 100°C	1b
Flash Point; COC (°C)	195 minimum
Phosphorus (% wt)	0.09
Foam Formation (after settling) - Sequence I	Nil
Sequence II	Nil
Sequence III	Nil

Available in: Bulk, 200 Litres, 60 Litres, 20 Litres and 2.5 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

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