



## Mobil Infinitec 152

Mobil Grease, United States

High Temperature Grease

### Product Description

Mobil Infinitec 152 super-long-life grease, recommended for a wide range of automotive and industrial applications, represents a major advance in lithium-complex grease technology. Developed and patented by ExxonMobil Research and Engineering, the proprietary technology of Mobil Infinitec 152 has set a new standard for lithium-complex grease high-temperature performance. Mobil Infinitec 152 dramatically out-performs conventional lithium-complex greases in high-temperature durability tests. The exceptional lubricating properties of Mobil Infinitec 152 have also been proven in extensive tests conducted by major bearing manufacturers.

### Features and Benefits

#### Superb High-Temperature Performance

The extraordinary high-temperature lubrication life of Mobil Infinitec 152 was impressively demonstrated in the demanding ASTM D 3527 High-Temperature Wheel Bearing Life Test, which employs a standard tapered roller wheel bearing hub operating at 160°C (320°F). Mobil Infinitec 152 achieved an average life of 390 hours - more than four times better than the life of a conventional premium lithium-complex grease that was specifically designed for automotive wheel bearing applications.

The exceptional high-temperature performance of Mobil Infinitec 152 was further demonstrated in the ASTM D 3336 High-Temperature Grease Life Test. At a temperature of 177°C (350°F), Mobil Infinitec 152 achieved an average life of 490 hours - five times greater than the life of a premium grease formulated with conventional lithium-complex technology.

#### Excellent Wear and Extreme-Pressure Protection

Mobil Infinitec 152 offers extreme-pressure (EP) and anti-wear performance equal to or better than that of top-of-the-line premium industrial greases. Its 60-lb Timken OK Load and 315-kg four-ball weld load are impressive testimony to its excellent EP performance.

#### Outstanding Water Resistance

Mobil Infinitec 152 is formulated with an advanced polymer that resists the effects of water washout and spray-off.

#### Dependable Shear Stability

An historical advantage of lithium-complex greases is their ability to resist consistency changes when subjected to mechanical shearing. The advanced thickener system of Mobil Infinitec 152 retains this advantage, offering 100,000-stroke penetration performance that is equal to or better than other premium lithium-complex greases.

Mobil Infinitec 152 automotive and industrial lubricating grease, formulated with a patented long-life lithium-complex thickener system, offers the following features and advantages:

- Up to five times the high-temperature lubrication life of conventional lithium-complex greases (ASTM D 3336)
- Excellent wear and EP protection
- Superb water resistance and shear stability
- Exceeds ASTM D 4950 GC-LB requirements for automotive wheel bearing and chassis applications

### Applications

#### Automotive

Mobil Infinitec 152 far exceeds the requirements of the ASTM D 4950 GC-LB grease classification for automotive wheel bearing and chassis applications.

Mobil Infinitec 152 was specifically designed to meet the demand for better durability and enhanced high-temperature lubrication in four-wheel drive truck and sport utility vehicle wheel bearings. After extensive testing, a major bearing manufacturer has approved Mobil Infinitec 152 for factory fill in their new high-performance automotive wheel bearings.

#### Industrial

Sealed-For-Life Bearings - Because of its exceptionally long lubrication life, Mobil Infinitec 152 is highly recommended for sealed-for-life bearing applications. Mobil Infinitec 152 is particularly well-suited for high-speed anti-friction bearings operating at high temperatures. In addition, its low oil-bleed properties offer a distinct advantage where minimal leakage is critical.

Multi-Purpose - Mobil Infinitec 152 also is ideal for a wide range of multi-purpose industrial applications requiring long-life or extended-lubrication cycles at high temperatures. Its excellent water resistance and extreme-pressure protection exceed the performance levels of conventional multi-purpose light-to-medium-duty industrial greases.

#### Specifications and Approvals

**This product meets or exceeds the requirements of:**

NLGI GC-LB

#### Properties and Specifications

Property	
Grade	NLGI 1.5
Thickener Type	Lithium Complex
Base Oil Viscosity of Greases @ 100 C, mm <sup>2</sup> /s, AMS 1700	14.1
Base Oil Viscosity of Greases @ 40 C, mm <sup>2</sup> /s, AMS 1697	148
Color, Visual	Blue
Corrosion Preventive Properties, Rating, ASTM D1743	PASS
Dropping Point, °C, ASTM D2265	>300
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	315
High-Temperature Wheel Bearing Test, Leakage, g, ASTM D4290	0.4
High-Temperature Wheel Bearing Test, Life @ 1000 rpm, 160 C, h, ASTM D3527	390
Lubrication Life @ 177 C, h, ASTM D3336	90
Oil Separation, mass%, ASTM D1742	0.9
Oil Separation, 30 h @ 100 C, mass%, ASTM D6184	3.2
Penetration, 60X, Kettle Release Pen, 0.1 mm, ASTM D217	294
Penetration, Change from 60X to 100,000X, 0.1 mm, ASTM D217	308
Thickener, wt%, AMS 1699	Lithium complex

Property	
Timken, Minimum OK Load, lb, ASTM D2509	60
Viscosity Index, ASTM D2270	91
Water Sprayoff, Loss, %, ASTM D4049	45
Water Washout, Loss @ 79 C, wt%, ASTM D1264	4

### Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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