



Mobil Infinitec 152

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

Mobil Infinitec 152 meets or exceeds the requirements of:

GC-LB	X
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Typical Properties

Mobil Infinitec 152

Thickener Type	Lithium Complex
Color	Blue
NLGI Grade	1-2
Base Oil Viscosity, ASTM D 445	
cSt @ 40°C	148
cSt @ 100°C	14.1
Base Oil VI, ASTM D 2270	91
Penetration	
60-Stroke Penetration, ASTM D 217, mm/10	294
100,000-Stroke Penetration, ASTM D 217, mm/10	308
Dropping Point, ASTM D 2265, °C	>300
Oil Separation, ASTM D 1742, %	0.9
High Temperature Oil Separation, FTM321.3, 30 hr @100°C, %	3.2
Lubrication Life, ASTM D 3336, @177°C, Hours	90
Wheel Bearing Life, ASTM D 3527 @160°C, Hours	390
Wheel Bearing Leakage, ASTM D 4290 @160°C, Grams	0.4
4-Ball EP Weld Point, ASTM D 2596, kg	315
Timken OK Load, ASTM D 2509, lb	60
Water Washout, ASTM D 1264 @ 80°C, %	4
Water Spray-off, ASTM D 4049, %	45
Rust Protection, ASTM D 1743	Pass

Health and Safety

Healthy skin condition depends on cleanliness. Oils and greases in contact with skin can result in plugging of sweat glands and hair follicles. This may lead to skin irritation or dermatitis. Accordingly, good personal hygiene should always be practiced. Oils, greases, and other foreign materials should be removed from the skin promptly. Soiled clothing should not remain in contact with the skin. INFINITEC 152 is readily removed from the skin by waterless hand cleaners followed by washing with soap, warm water, and a skin brush. It can be removed from clothing by dry-cleaning with solvents or by washing with laundry detergents. If INFINITEC 152 comes in contact with the eyes, flush the eyes with fresh water until the irritation subsides.

As in the case of all greases, if there is a puncture wound with grease contamination, or an injury where grease is injected into body tissue, such as a grease gun injury," prompt medical assistance should be obtained.

WARNING: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove, and even a trace of remaining material constitutes an explosive hazard. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Additional important health and safety information on this product can be found in the Material Safety Data Sheet which is available online at www.exxon.com or by contacting Exxon Branded Lubricants, ExxonMobil Lubricants and Petroleum Specialties Company, North America Technical Services - MSDS, 3225 Gallows Road, Fairfax, VA 22037.

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