Mobil

BEACON™ 325

Mobil Grease , United States

Grease

Product Description

BEACON™ 325 is a high performance grease specifically formulated for the lubrication of precision equipment operating at moderate and low temperatures. It is made with a synthetic base oil of extremely low viscosity and low volatility plus a lithium soap. BEACON 325 is characterised by good mechanical stability, a high degree of resistance to water and extremely high oxidation stability. As its base oil viscosity is low and the viscosity index of the fluid is high, the grease has excellent low temperature properties including low starting and running torque at very cold temperatures and good pumpability.

BEACON 325 provides excellent service in a wide variety of small bearings and small, lightly loaded gears that operate over a wide temperature range. Its long lubrication life and excellent oxidation stability well suit it for use as a bearing lubricant in sealed-for-life units in automotive, aircraft and industrial applications. The recommended application temperature range for continuous operation for BEACON 325 is -50°C to 120°C.

Features and Benefits

BEACON 325 is a member of the Mobil brand of lubricating products recognized for their high quality and reliability, as well as performance capabilities. As with other Mobil greases, this product is manufactured to the strictest quality standards. A key feature of BEACON 325 is its use of a synthetic fluid to provide optimum performance for low temperature precision applications. BEACON 325 offers the following quality features:

- Special synthetic base oil provides excellent low-torque and low temperature properties
- Excellent oxidation stability for extended grease life needed for filled for life applications
- Very good water resistance ensures proper lubrication even in the presence of incidental water contamination
- Low volatility base oil permits operation at moderate to high temperature without fluid evaporation

Applications

Application notes: BEACON 325 is formulated with an organic ester synthetic oil. This synthetic oil may cause a softening or swelling of certain plastics, elastomers, paints, or varnishes. How serious the softening or swelling tendency may be depends also on the temperature and the period of contact. Contact your local ExxonMobil lubricants representative for further information on materials compatibility.

BEACON 325 provides excellent service in a wide variety of small bearings and lightly loaded gears that operate over a wide temperature range, including such applications as:

- Naval, marine, and aircraft instruments and control mechanisms
- Geared limit switches in Limitorque valve actuators
- Commercial and military electronic equipment
- Sealed for life motors, generators, and similar equipment in automotive, aviation and industrial applications

Specifications and Approvals

This product meets or exceeds the requirements of:
DIN 51825:2004-06 - K E 1-2 G -50

Properties and Specifications

Property	
Grade	NLGI 1.5
Thickener Type	Lithium
Base Oil Viscosity of Greases @ 40 C, mm2/s, AMS 1697	12
Color, Visual	Tan
Corrosion Preventive Properties, Rating, ASTM D1743	PASS
Dropping Point, °C, ASTM D2265	180
Oil Sep. 30H at 100C, mass %, FTMS 791-321.3	4
Penetration, 100 Kx, FH 25C, 0.1 mm, D217 mod	285
Thickener, wt%, AMS 1699	Lithium
Viscosity, Apparent @ 20 s-1, -40 C, P, ASTM D1092(mod)	7000
Viscosity, Apparent @ 50 s-1, -40 C, P, ASTM D1092(mod)	3500

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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