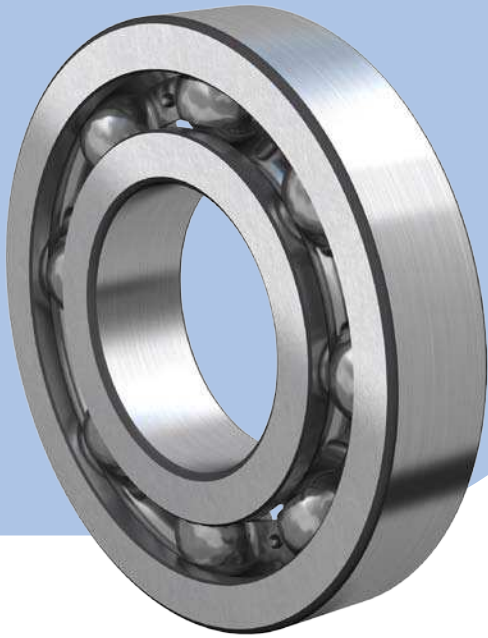


Why SKF?

SKF Explorer deep groove ball bearings



SKF Explorer deep groove ball bearings are designed to run cooler, smoother, quieter and longer than standard design deep groove ball bearings.

These bearings provide outstanding performance and service life.

The SKF Explorer deep groove ball bearing is the result of our ongoing commitment to continuous improvement of the performance of our products through our technology development process. The performance of these bearings has been substantially improved by optimizing the internal geometry and surface finish of all contact surfaces, redesigning the cage, combining the extremely clean and homogenous steel with a unique heat treatment and improving the quality and uniformity of the balls.

Because deep groove ball bearings are the most widely used bearing type, they are available from SKF in many designs, variants and sizes. SKF produces each SKF Explorer deep groove ball bearing to the same specifications, regardless of where it is produced. SKF's standardized processes provide one level of quality, making SKF Explorer deep groove ball bearings an excellent solution for many applications.

Product features

- Improved dimensional accuracy
- Improved running accuracy
- Less friction
- Made of super-clean and tough steel
- Runs 50% quieter

Benefits

- Runs cooler
- Increased uptime and productivity
- Reduced noise and vibration levels
- Longer bearing service life
- Longer lubricant life
- Excellent high speed performance
- Lower maintenance and operating costs

Common applications

- Electric motors and generators
- Agriculture
- Material handling
- Industrial transmissions
- Food and beverage
- Pumps
- Fans



Higher precision increases bearing life

SKF Explorer deep groove ball bearings are manufactured in accordance with ISO class 5 running accuracy and class 6 dimensional accuracy which improves the bearing's rolling performance in the ball track.

The result of this is a bearing that will run cooler, quieter and longer than other bearings on the market that are made to the Normal ISO precision class.

Cleaner bearings last longer

Contaminants can quickly damage a bearing and negatively affect its performance and service life. Therefore, SKF washes each component multiple times as it moves through the manufacturing process.

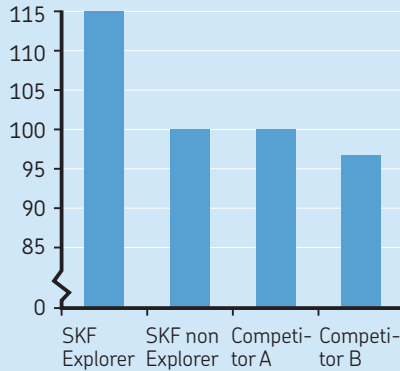
To help eliminate the ingress of contaminants into a bearing, SKF fills each capped bearing with grease that has been analyzed for particulate content. In addition to these precautions, SKF seals and shields will help protect the bearing during the mounting process as well as during operation.

Wide assortment of lubricant options

The lubrication requirements of an SKF Explorer deep groove ball bearing can vary depending on the application and its operating conditions. Therefore, SKF offers a wide range of bearing greases including application-specific greases like food grade grease and alternative lubricants like solid oil and extreme temperature graphite based lubricants.

For more information: www.skf.com/bearings or the SKF rolling bearing catalogue.

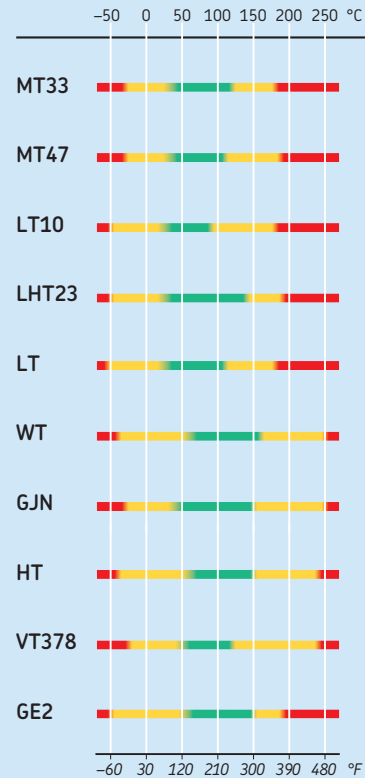
Increased basic rating life L_{10}



The effect of the cooler running as well as the different sealing solutions can be evaluated by using the SKF rating life calculation.

SKF greases for capped deep groove ball bearings

Grease Temperature range



Selection guidelines for SKF sealing solutions

| Requirement | Shields | Non-contact seals | Low-friction seals | Contact seals | |
|------------------|---------|-------------------|--------------------|---------------|-----|
| | Z, ZS | RZ | RSL | RSH | RS1 |
| Low friction | +++ | +++ | ++ | 0 | 0 |
| High speeds | +++ | +++ | +++ | 0 | 0 |
| Grease retention | 0 | + | +++ | +++ | ++ |
| Dust exclusion | 0 | + | ++ | +++ | +++ |
| Water exclusion | | | | | |
| static | - | - | 0 | +++ | ++ |
| dynamic | - | - | 0 | + | + |
| high pressure | - | - | 0 | +++ | 0 |

Symbols: +++ = best ++ = very good + = good 0 = fair - = not recommended

© SKF is a registered trademark of the SKF Group.

™ SKF Explorer is a trademark of the SKF Group.

© SKF Group 2013

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB BU/P9 13204/1 EN · July 2013

