Sealed SKF Explorer spherical roller bearings

Features

- Made of clean and tough upgraded steel
- Highly effective seals
- Accommodates heavy loads and up to 0,5° misalignment

Benefits

- Increased service life in contaminated environments
- Minimum lubricant consumption
- Reduced maintenance and operating costs
- Space saving
- Reduced environmental impact
- Pre-lubricated and sealed - enables easy mounting

Typical applications

- Elevators, escalators
- Electric motors
- Mining and construction equipment
- Fluid machinery
- Marine industry machinery
- Food processing machinery
- Steel manufacturing equipment
- Conveyors
- Cranes

By design, SKF spherical roller bearings can accommodate very heavy radial and heavy axial loads in applications prone to misalignment or shaft deflections.

Sealed spherical roller bearings have the same features and basic design as open spherical roller bearings, but are equipped with contact seals fitted in recesses in the outer ring.

The bearings are supplied lubricated with a high-performance SKF grease. For many application conditions, the bearings do not require relubrication and can be considered virtually maintenance-free. The effective contact seals keep lubricant in and contaminants out of the bearing, to significantly increase service life in applications where there are high levels of contamination.

Upgraded SKF Explorer spherical roller bearings

All SKF Explorer spherical roller bearings have been upgraded to a new level of performance, featuring a combination of high-quality steel and an improved heat treatment. The result: improved performance under contaminated or poor lubrication conditions.

Proven seal performance

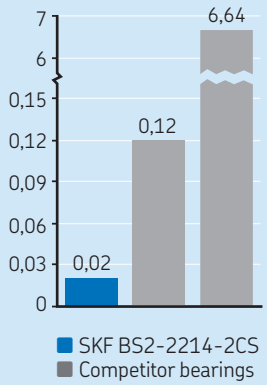
The seals provide optimum protection against solid contaminants and moisture.

A wide range of sealed bearings for many applications

SKF offers the industry's widest range of sealed spherical roller bearings. Bore diameters range from 25 to 400 mm. Certain bearings in the 222- and 223-series are slightly wider to accommodate the seals.

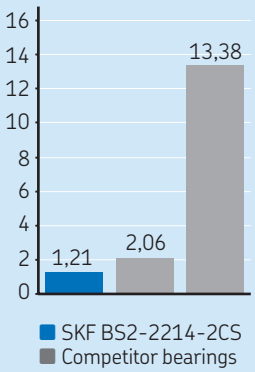
Arizona dust test

Dust particle weight ratio in grease [%]

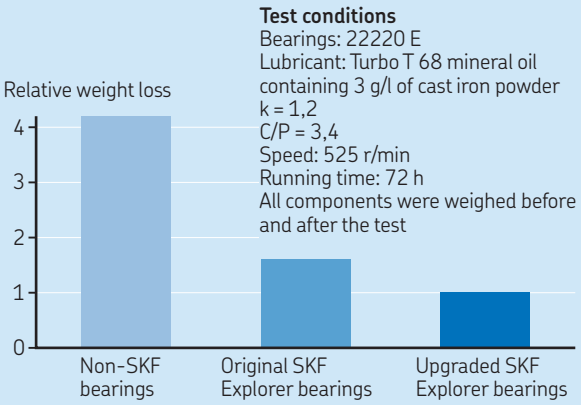


Water spray test

Water ratio in grease [%]



Relative wear for different bearing steels



Test conditions
Bearings: 22220 E
Lubricant: Turbo T 68 mineral oil containing 3 g/l of cast iron powder
k = 1,2
C/P = 3,4
Speed: 525 r/min
Running time: 72 h
All components were weighed before and after the test

Sealed SKF spherical roller bearing range

d [mm]	213	222	223	230	231	232	239	240	241	Size
25		↔								05
30		↔								06
35		↔								07
40		↔	↔							08
45		↔	↔							09
50		↔	↔							10
55		↔	↔							11
60		↔	↔							12
65		↔	↔							13
70		↔	↔							14
75		↔	↔							15
80		↔	↔							16
85		↔								17
90		↔	↔							18
95		↔								19
100		↔								20
110		↔								22
120		↔								24
130		↔								26
140										28
150										30
160										32
170										34
180										36
190										38
200										40
220										44
240										48
260										52
280										56
300										60
320										64
340										68
360										72
380										76
400										80

= Open spherical roller bearings available

= Open and sealed spherical roller bearings available, designation suffix 2CS

= Open and sealed spherical roller bearings available, designation suffix 2RS

↔ Sealed bearing is slightly wider than open bearing

SKF Explorer spherical roller bearings with the designation suffix 2RS are part of the SKF BeyondZero portfolio of products, services and solutions designed to help our customers reduce environmental impact. To learn more, visit **beyondzero.com**

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