



SKF 2202 ETN9

Self-aligning ball bearing

Self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection.

Technical specifications

Bore type	Cylindrical
Dimensions	
Bore diameter	15 mm
Outside diameter	35 mm
Width	14 mm
Shoulder diameter inner ring	20.86 mm
Shoulder diameter outer ring	29.5 mm
Chamfer dimension	0.6 mm
Abutment dimensions	
Abutment diameter shaft	19.2 mm
Abutment diameter housing	30.8 mm
Fillet radius	0.6 mm
Calculation data	
Basic dynamic load rating	8.71 kN
Basic static load rating	2.04 kN
Fatigue load limit	0.104 kN
Reference speed	38000 r/min
Limiting speed	26000 r/min
Permissible angular misalignment	2.5 °
Calculation factor	0.05
Limiting value	0.43
Calculation factor	1.6
Calculation factor	1.5
Calculation factor	2.3
Performance	
Basic dynamic load rating	8.71 kN
Basic static load rating	2.04 kN
Reference speed	38000 r/min
Limiting speed	26000 r/min
Properties	
Retaining feature, inner ring	None
Locating feature, bearing outer ring	Without
Number of rows	2
Bore type	Cylindrical
Cage	Non-metallic
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Indicative carbon footprint for new product

0.19 kg CO₂e**Logistics**

Product net weight	0.0536 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings