



SKF 129 TN9

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

General	
Bore type	Cylindrical

Dimensions	
Bore diameter	9 mm
Outside diameter	26 mm
Width	8 mm
Shoulder diameter inner ring	14.8 mm
Shoulder diameter outer ring	20.4 mm
Chamfer dimension	0.3 mm

Abutment dimensions	
Abutment diameter shaft	11.4 mm
Abutment diameter housing	23.6 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	3.9 kN
Basic static load rating	0.815 kN
Fatigue load limit	0.043 kN
Reference speed	60000 r/min
Limiting speed	38000 r/min
Permissible angular misalignment	3 °
Calculation factor	0.04
Limiting value	0.33
Calculation factor	2
Calculation factor	1.9
Calculation factor	3

Performance	
Basic dynamic load rating	3.9 kN
Basic static load rating	0.815 kN
Reference speed	60000 r/min
Limiting speed	38000 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

0.08 kg CO₂e**Logistics**

Product net weight	0.0228 kg
eClass code	23-05-08-06
UNSPSC code	31171532

SKF drawings