



SKF 6205/VA201

Deep groove ball bearing for high temperature applications

Single row deep groove ball bearings for high temperature applications are designed for challenging operating conditions, with certain variants being capable of performing at temperatures as high as 350 °C (660 °F). They have increased radial internal clearances and use graphite-based lubricants that are optimized for operation at high temperatures. The entire surface of the bearings are manganese phosphate treated, which enhances adhesion of the lubricant to the metal and improves their running-in properties. As with deep groove ball bearings generally, they are particularly versatile, accommodate radial and axial loads in both directions, and are easy to mount.

Technical specifications

Running in required		Yes
Dimensions		
Bore diameter		25 mm
Outside diameter		52 mm
Width		15 mm
Shoulder diameter inner ring		34.27 mm
Recess diameter outer ring shoulder		46.21 mm
Chamfer dimension		1 mm
Abutment dimensions		
Abutment diameter shaft		30.6 mm
Abutment diameter housing		46.4 mm
Fillet radius		1 mm
Calculation data		
Basic static load rating		7.8 kN
Limiting speed		120 r/min
Operating temperature		250 °C
Performance		
Basic static load rating		7.8 kN
Limiting speed		120 r/min
Maximum operating temperature		250 °C
Properties		
Filling slots		Without
Number of rows		1
Locating feature, bearing outer ring		Without
Bore type		Cylindrical
Cage		Sheet metal
Matched arrangement		No
Radial internal clearance		Multiples of C5
Material, bearing		High temperature steel
Coating		Coated
Sealing		Without
Lubricant		Solid lubricant
Relubrication feature		Without
Indicative carbon footprint for new product		0.45 kg CO ₂
Logistics		
Product net weight		0.124 kg
eClass code		23-05-90-90
UNSPSC code		31171504

SKF drawings