



SKF 6316 M/C3VL0241

INSOCOAT® deep groove ball bearing

INSOCOAT single row deep groove ball bearings feature an electrically insulating coating on the outside surfaces of either the inner or outer bearing ring. This keeps stray electric currents from passing through the bearings, protecting them against electrical erosion damage and helping prevent lubricant degradation resulting from electric current discharge. As with deep groove ball bearings generally, they are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

Technical specifications

Dimensions	
Bore diameter	80 mm
Outside diameter	170 mm
Width	39 mm
Shoulder diameter inner ring	108 mm
Recess diameter outer ring shoulder	149 mm
Chamfer dimension	2.1 mm

Abutment dimensions	
Abutment diameter shaft	92 mm
Abutment diameter shaft	154 mm
Abutment diameter housing	158 mm
Fillet radius	2 mm

Calculation data	
Basic dynamic load rating	130 kN
Basic static load rating	86.5 kN
Fatigue load limit	3.25 kN
Reference speed	8500 r/min
Limiting speed	7500 r/min
Calculation factor	0.03
Calculation factor	13.3

Performance	
Basic dynamic load rating	130 kN
Basic static load rating	86.5 kN
Reference speed	8500 r/min
Limiting speed	7500 r/min

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Machined brass
Matched arrangement	No
Radial internal clearance	C3
Material, bearing	Bearing steel
Coating	Insulation coating on outer ring
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	14.9 kg CO ₂ e

Logistics	
Product net weight	4.13 kg
eClass code	23-05-08-01
UNSPSC code	31171537

SKF drawings

