



SKF 6316/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 | 5300 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 | 5300 r/min |

| 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 | C3 |
| Material, bearing | Bearing steel |
| Coating | Insulation coating on outer ring |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Without |
| Indicative carbon footprint for new product | 13.1 kg CO ₂ |

| Logistics | |
|--------------------|-------------|
| Product net weight | 3.63 kg |
| eClass code | 23-05-08-01 |
| UNSPSC code | 31171537 |

SKF drawings