

# 6218/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.

- Coating protects against electrical erosion damage
- Reduced lubricant degradation resulting from electric current discharge
- Typical benefits of single row deep groove ball bearings

## Overview

### Dimensions

Bore diameter	90 mm
Outside diameter	160 mm
Width	30 mm

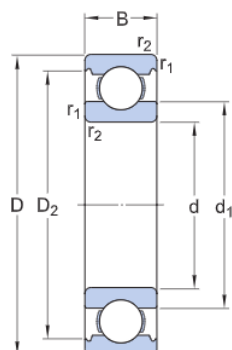
### Performance

Basic dynamic load rating	101 kN
Basic static load rating	73.5 kN
Limiting speed	5 300 r/min
Reference speed	8 500 r/min

### Properties

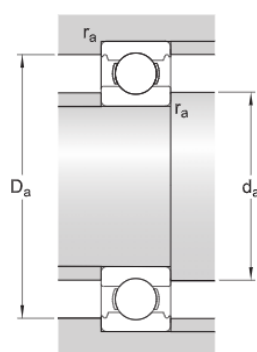
Bore type	Cylindrical
Cage	Sheet metal
Coating	Insulation coating on outer ring
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	C3
Relubrication feature	Without
Sealing	Without

# Technical Specification



## Dimensions

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	30 mm	Width
d <sub>1</sub>	≈ 112.5 mm	Shoulder diameter inner ring
D <sub>2</sub>	≈ 145 mm	Recess diameter outer ring shoulder
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension



## Abutment dimensions

d <sub>a</sub>	min. 101 mm	Abutment diameter shaft
D <sub>a</sub>	min. 149 mm	Abutment diameter shaft
D <sub>a</sub>	max. 149 mm	Abutment diameter housing
r <sub>a</sub>	max. 2 mm	Fillet radius

## Calculation data

Basic dynamic load rating	C	101 kN
Basic static load rating	C <sub>0</sub>	73.5 kN
Fatigue load limit	P <sub>u</sub>	2.8 kN
Reference speed		8 500 r/min
Limiting speed		5 300 r/min
Calculation factor	k <sub>r</sub>	0.025
Calculation factor	f <sub>0</sub>	14.7

## Mass

Mass bearing	2.4 kg
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