



Image may differ from product. See technical specification for details.

W 6205

Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings provide greater chemical and corrosion resistance. 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.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- · Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	25 mm
Outside diameter	52 mm
Width	15 mm

Performance

Basic dynamic load rating	11.7 kN
Basic static load rating	7.65 kN
Reference speed	30 000 r/min
Limiting speed	19 000 r/min

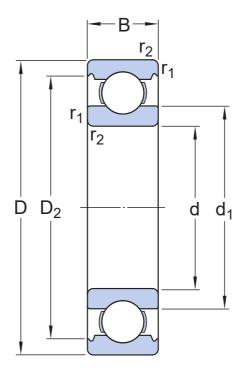
Properties

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

Logistics

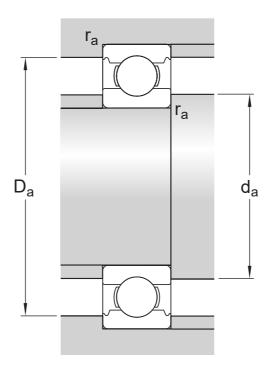
Product net weight	0.12 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	25 mm	Bore diameter
D	52 mm	Outside diameter
В	15 mm	Width
d_1	≈ 34 mm	Shoulder diameter
D ₂	≈ 45.72 mm	Recess diameter
r _{1.2}	min. 1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 30 mm	Diameter of shaft abutment
D _a	max. 47 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	11.7 kN
Basic static load rating	C ₀	7.65 kN
Fatigue load limit	P_{u}	0.335 kN
Reference speed		30 000 r/min
Limiting speed		19 000 r/min
Minimum load factor	k _r	0.03
Calculation factor	f_0	13.8

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information

Engineering Tools Product details information Single row deep groove ball bearings SKF Product select Principles of rolling bearing selection Stainless steel deep groove ball SimPro Quick General bearing knowledge Bearing Frequency Calculator Single row deep groove ball bearings Bearing selection process with filling slots LubeSelect for SKF greases Bearing interfaces Double row deep groove ball bearings Heater selection tool Seat tolerances for standard General bearing specifications conditions Loads Selecting internal clearance Temperature limits Lubrication Permissible speed Sealing, mounting and dismounting Designation system Bearing failure and how to prevent it



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