



# NTN PRECISION AXLE CORP.

## NTN Bearing Deep Groove Ball Bearing Price NTN 6003 6003zz 6003-2RS



Bearing No. 6003

6003 Bearing 2D drawings and 3D CAD models

Size	17x35x10 mm
Bore Diameter	17 mm
Outer Diameter	35 mm
Width	10 mm
d	17 mm
D	35 mm
B	10 mm
C	10 mm
r min.	0,3 mm
da min.	19 mm
da max	21 mm
Da max.	33 mm
ra max.	0,3 mm
Weight	0,039 Kg
Basic dynamic load rating (C)	6,8 kN
Basic static load rating (C0)	3,35 kN
(Grease) Lubrication Speed	20 000 r/min
(Oil) Lubrication Speed	24 000 r/min
rs min	0.3 mm
Radial clearance class	CN
Mass	0.04 kg
Dynamic load, C	6.8 kN
Static load, C0	3.35 kN
Fatigue limit load, Cu	0.15 kN
f0	13.6



## NTN PRECISION AXLE CORP.

Nlim (oil)	24,000 rpm
Nlim (grease)	20,000 rpm
Min operating temperature, Tmin	-20 ° C
Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.47 Hz
Characteristic outer ring frequency, BPF0	3.14 Hz
Characteristic inner ring frequency, BRF1	4.86 Hz
da min	19 mm
Da max	33 mm
ra max	0.3 mm
Category	Single Row Ball Bearings
Inventory	0.0
Manufacturer Name	NTN
Minimum Buy Quantity	N/A
Weight / Kilogram	0.039
EAN	4547359003673
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric



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Long Description	17MM Bore; 35MM Outside Diameter; 10MM Outer Race Width; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features; C0-Medium Internal Clearance; Steel Cage
Other Features	Deep Groove
Category	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	<a href="http://www.ntnamerica.com">http://www.ntnamerica.com</a>
Manufacturer Item Number	6003
Weight / LBS	0.086
Bore	0.669 Inch   17 Millimeter
Outer Race Width	0.394 Inch   10 Millimeter
Outside Diameter	1.378 Inch   35 Millimeter
Inner Race Width	0 Inch   0 Millimeter
bore diameter:	17 mm
precision rating:	Class 0
outside diameter:	35 mm
finish/coating:	Uncoated
overall width:	10 mm
bearing material:	High Carbon Chrome Steel
bore type:	Round
cage material:	Steel
closure type:	Open
inner ring width:	10 mm
row type & fill slot:	Single Row Non-Fill Slot
outer ring width:	10 mm



## NTN PRECISION AXLE CORP.

snap ring included:	Without Snap Ring
maximum rpm (grease):	20000 rpm
internal clearance:	CN
maximum rpm (oil):	24000 rpm
operating temperature range:	-40 to 120 ° C
fillet radius:	0.3 mm
dynamic load capacity:	6800 N
manufacturer product page:	<a href="#">Click here</a>
static load capacity:	3350 N