



# Likao Bearing Co., Ltd.

## 17 mm x 35 mm x 10 mm ntn 6003 bearing



Bearing No. 6003

|                               |              |
|-------------------------------|--------------|
| 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         |
| Nlim (oil)                    | 24,000 rpm   |

6003 Bearing 2D drawings and 3D CAD models



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|   |  |
|---|--|
| 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  |
| 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   |
| Long Description                              | 17MM Bore; 35MM Outside Diameter; 10MM Outer Race Width; Open; |



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|                          |  |
|--------------------------|--|
|                          | 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  |
| snap ring included:      | Without Snap Ring  |
| maximum rpm (grease):    | 20000 rpm  |
|                          |  |



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|                              |                            |
|------------------------------|----------------------------|
| 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                     |