

# NSK FWF-404527 needle roller bearings

Request A Quote For 100x70x16 Size (mm) 70 Outer Diameter (mm)  
Your Special NSK FWF-404527 needle roller bearings Needs  
Today! Free Quotes. ISO 9001 certified.

|                     |           |
|---------------------|-----------|
| Size (mm)           | 100x70x16 |
| Bore Diameter (mm)  | 100       |
| Outer Diameter (mm) | 70        |
| Width (mm)          | 16        |
| d                   | 70 mm     |
| D                   | 100 mm    |
| B                   | 16 mm     |
| d1                  | 79.3 mm   |
| d2                  | 76.8 mm   |
| D1                  | 90.52 mm  |
| b                   | 2 mm      |
| C1                  | 8.6 mm    |
| C2                  | 2.8 mm    |
| C3                  | 2.8 mm    |
| r1,2 – min.         | 1 mm      |
| r3,4 – min.         | 0.3 mm    |
| a                   | 29.1 mm   |
| da – min.           | 74.6 mm   |
| db – min.           | 72 mm     |
| Da – max.           | 95.4 mm   |
| Db – max.           | 98 mm     |
| ra – max.           | 1 mm      |

|                                       |                     |
|---------------------------------------|---------------------|
| rb – max.                             | 0.3 mm              |
| dn                                    | 81.5 mm             |
| Basic dynamic load rating – C         | 20.8 kN             |
| Basic static load rating – C0         | 15.3 kN             |
| Fatigue load limit – Pu               | 0.655 kN            |
| Limiting speed for grease lubrication | 16500 r/min         |
| Limiting speed for oil lubrication    | 26000 mm/min        |
| Ball – Dw                             | 9.525 mm            |
| Ball – z                              | 22                  |
| Gref                                  | 4.3 cm <sup>3</sup> |
| Calculation factor – e                | 0.68                |
| Calculation factor – Y2               | 1.41                |
| Calculation factor – Y0               | 0.76                |
| Calculation factor – X2               | 0.67                |
| Calculation factor – Y1               | 0.92                |
| Preload class A – GA                  | 190 N               |
| Preload class B – GB                  | 570 N               |
| Preload class C – GC                  | 1130 N              |
| Calculation factor – f                | 1.14                |
| Calculation factor – f1               | 0.99                |
| Calculation factor – f2A              | 1                   |
| Calculation factor – f2B              | 1.04                |
| Calculation factor – f2C              | 1.07                |
| Calculation factor – fHC              | 1                   |
| Preload class A                       | 131 N/micron        |
| Preload class B                       | 197 N/micron        |
| Preload class C                       | 258 N/micron        |
| r1,2 min.                             | 1 mm                |
| r3,4 min.                             | 0.3 mm              |

|  |                     |
|--|---------------------|
| da min.                                  | 74.6 mm             |
| db min.                                  | 72 mm               |
| Da max.                                  | 95.4 mm             |
| Db max.                                  | 98 mm               |
| ra max.                                  | 1 mm                |
| rb max.                                  | 0.3 mm              |
| Basic dynamic load rating C              | 20.8 kN             |
| Basic static load rating C0              | 15.3 kN             |
| Fatigue load limit Pu                    | 0.655 kN            |
| Attainable speed for grease lubrication  | 16500 r/min         |
| Attainable speed for oil-air lubrication | 26000 r/min         |
| Ball diameter Dw                         | 9.525 mm            |
| Number of balls z                        | 22                  |
| Reference grease quantity Gref           | 4.3 cm <sup>3</sup> |
| Preload class A GA                       | 190 N               |
| Static axial stiffness, preload class A  | 131 N/μm            |
| Preload class B GB                       | 570 N               |
| Static axial stiffness, preload class B  | 197 N/μm            |
| Preload class C GC                       | 1130 N              |
| Static axial stiffness, preload class C  | 258 N/μm            |
| Calculation factor f                     | 1.14                |
| Calculation factor f1                    | 0.99                |
| Calculation factor f2A                   | 1                   |
| Calculation factor f2B                   | 1.04                |
| Calculation factor f2C                   | 1.07                |
| Calculation factor fHC                   | 1                   |
| Calculation factor e                     | 0.68                |
| Calculation factor (single, tandem) Y2   | 0.87                |
| Calculation factor (single, tandem) Y0   | 0.38                |

|   |         |
|---|---------|
| Calculation factor (single, tandem) X2                | 0.41    |
| Calculation factor (back-to-back, face-to-face)<br>Y1 | 0.92    |
| Calculation factor (back-to-back, face-to-face)<br>Y2 | 1.41    |
| Calculation factor (back-to-back, face-to-face)<br>Y0 | 0.76    |
| Calculation factor (back-to-back, face-to-face)<br>X2 | 0.67    |
| Mass bearing  | 0.32 kg |