



BHT FB 450° BECO PLUS

Ball Bearings for Extreme Temperature

The BHT FB 450° BECO PLUS bearings are designed on the dimensions of a standard bearing but with treatments of stabilisation, surface treatment, radial clearance and full ball fitting that make them suitable for operation from -30° to +450°. Their recommended range of application is between 280° and 450°. The BHT FB 450° BECO PLUS are open bearings, do not require lubrication. The unique design allows, through a precision lateral milling, the complete full ball fitting of the bearing. This technical solution avoids the use of steel cage that is normally the weak element of the bearing in the application of high temperatures. The greatest number of spheres within the bearing allows for an increase of load capacity, especially in high temperature but limits the use at low speed. This product has been produced for over 10 years allowing exceptional performance in terms of durability in applications more demanding. In particular its application is recommended where frequent changes are presented in the direction of the bearing and with irregular loads.

Technical characteristics:

Material Steel AISI 52100 (Chrome) stabilized to the application
Treatment of manganese phosphate coating on all steel parts + Treatment of ceramic coating
Radial clearance 4xC5

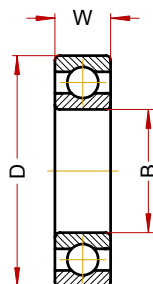
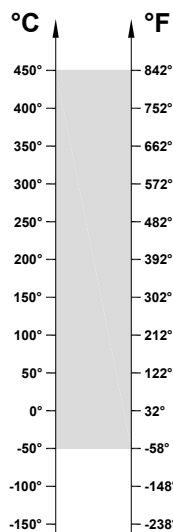
Fields of application:

Paint Ovens
Steel Industry
Furnaces for Ceramic Industry
Trolley Industry Brick Kilns



BHT FB 450° BECO PLUS (6000 Serie)

Ball Bearings for Extreme Temperature



OPERATING RANGE: -50° / 450°C

ECONOMIC OPERATING RANGE: 300° / 450°C

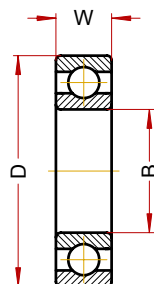
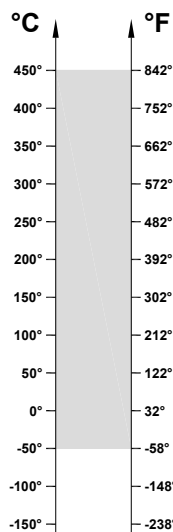
| Designation | Bore (B) | Diam (D) | Widht (W) | Weight g | Speed RPM/min (*) | Static Load, kN at 450° | Static Load, kN at 20° |
|----------------------------|----------|----------|-----------|----------|-------------------|-------------------------|------------------------|
| 6000 BHT FB 450° BECO PLUS | 10 | 26 | 8 | 20 | 90 | 1,225 | 1,96 |
| 6001 BHT FB 450° BECO PLUS | 12 | 28 | 8 | 25 | 85 | 1,475 | 2,36 |
| 6002 BHT FB 450° BECO PLUS | 15 | 32 | 9 | 30 | 80 | 1,78 | 2,85 |
| 6003 BHT FB 450° BECO PLUS | 17 | 35 | 10 | 40 | 75 | 2,03 | 3,25 |
| 6004 BHT FB 450° BECO PLUS | 20 | 42 | 12 | 69 | 70 | 3,12 | 5 |
| 6005 BHT FB 450° BECO PLUS | 25 | 47 | 12 | 80 | 65 | 3,65 | 5,85 |
| 6006 BHT FB 450° BECO PLUS | 30 | 55 | 13 | 120 | 60 | 5 | 8 |
| 6007 BHT FB 450° BECO PLUS | 35 | 62 | 14 | 160 | 55 | 6,5 | 10,4 |
| 6008 BHT FB 450° BECO PLUS | 40 | 68 | 15 | 190 | 50 | 7,37 | 11,8 |
| 6009 BHT FB 450° BECO PLUS | 45 | 75 | 16 | 250 | 45 | 8,93 | 14,3 |
| 6010 BHT FB 450° BECO PLUS | 50 | 80 | 16 | 260 | 40 | 9,75 | 15,6 |
| 6011 BHT FB 450° BECO PLUS | 55 | 90 | 18 | 390 | 40 | 13,25 | 21,2 |
| 6012 BHT FB 450° BECO PLUS | 60 | 95 | 18 | 420 | 40 | 14,5 | 23,2 |
| 6013 BHT FB 450° BECO PLUS | 65 | 100 | 18 | 440 | 40 | 15,62 | 25 |
| 6014 BHT FB 450° BECO PLUS | 70 | 110 | 20 | 600 | 40 | 19,69 | 31,5 |
| 6015 BHT FB 450° BECO PLUS | 75 | 115 | 20 | 640 | 40 | 21,25 | 34 |

OPERATING RANGE is the correct technical range in which can be used the bearing with good operating result.

ECONOMIC OPERATING RANGE is the range of temperature in which you can find, according to our study experience and know-how, the better relation price - quality life-time.

BHT FB 450° BECO PLUS (6200 Serie)

Ball Bearings for Extreme Temperature



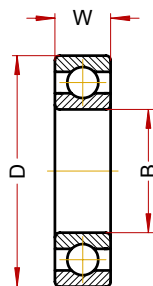
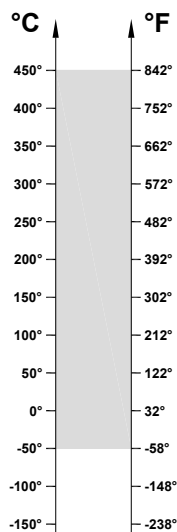
OPERATING RANGE: -50° / 450°C

ECONOMIC OPERATING RANGE: 300° / 450°C

| Designation | Bore (B) | Diam (D) | Widht (W) | Weight g | Speed RPM/min (*) | Static Load, kN at 450° | Static Load, kN at 20° |
|----------------------------|----------|----------|-----------|----------|-------------------|-------------------------|------------------------|
| 6200 BHT FB 450° BECO PLUS | 10 | 30 | 9 | 30 | 90 | 1,62 | 2,6 |
| 6201 BHT FB 450° BECO PLUS | 12 | 32 | 10 | 37 | 85 | 1,93 | 3,1 |
| 6202 BHT FB 450° BECO PLUS | 15 | 35 | 11 | 45 | 80 | 2,34 | 3,75 |
| 6203 BHT FB 450° BECO PLUS | 17 | 40 | 12 | 65 | 75 | 2,97 | 4,75 |
| 6204 BHT FB 450° BECO PLUS | 20 | 47 | 14 | 110 | 70 | 4,09 | 6,55 |
| 6205 BHT FB 450° BECO PLUS | 25 | 52 | 15 | 130 | 65 | 5 | 8 |
| 6206 BHT FB 450° BECO PLUS | 30 | 62 | 16 | 200 | 60 | 7 | 11,2 |
| 6207 BHT FB 450° BECO PLUS | 35 | 72 | 17 | 290 | 55 | 9,56 | 15,3 |
| 6208 BHT FB 450° BECO PLUS | 40 | 80 | 18 | 370 | 50 | 11,25 | 18 |
| 6209 BHT FB 450° BECO PLUS | 45 | 85 | 19 | 410 | 45 | 12,75 | 20,4 |
| 6210 BHT FB 450° BECO PLUS | 50 | 90 | 20 | 460 | 40 | 15 | 24 |
| 6211 BHT FB 450° BECO PLUS | 55 | 100 | 21 | 610 | 40 | 18,12 | 29 |
| 6212 BHT FB 450° BECO PLUS | 60 | 110 | 22 | 780 | 40 | 22,5 | 36 |
| 6213 BHT FB 450° BECO PLUS | 65 | 120 | 23 | 990 | 40 | 25,9 | 41,5 |
| 6214 BHT FB 450° BECO PLUS | 70 | 125 | 24 | 1040 | 40 | 27,5 | 44 |
| 6215 BHT FB 450° BECO PLUS | 75 | 130 | 25 | 1210 | 40 | 30,6 | 49 |

OPERATING RANGE is the correct technical range in which can be used the bearing with good operating result.

ECONOMIC OPERATING RANGE is the range of temperature in which you can find, according to our study experience and know-how, the better relation price - quality life-time.

BHT FB 450° BECO PLUS (6300 Serie)**Ball Bearings for Extreme Temperature**

OPERATING RANGE: -50° / 450°C

ECONOMIC OPERATING RANGE: 300° / 450°C

| Designation | Bore (B) | Diam (D) | Widht (W) | Weight g | Speed RPM/min (*) | Static Load, kN at 450° | Static Load, kN at 20° |
|----------------------------|----------|----------|-----------|----------|-------------------|-------------------------|------------------------|
| 6300 BHT FB 450° BECO PLUS | 10 | 35 | 11 | 52 | 90 | 2,15 | 3,45 |
| 6301 BHT FB 450° BECO PLUS | 12 | 37 | 12 | 60 | 85 | 2,60 | 4,15 |
| 6302 BHT FB 450° BECO PLUS | 15 | 42 | 13 | 80 | 80 | 3,38 | 5,4 |
| 6303 BHT FB 450° BECO PLUS | 17 | 47 | 14 | 120 | 75 | 4,09 | 6,55 |
| 6304 BHT FB 450° BECO PLUS | 20 | 52 | 15 | 140 | 70 | 5,3 | 8,5 |
| 6305 BHT FB 450° BECO PLUS | 25 | 62 | 17 | 225 | 65 | 7,13 | 11,4 |
| 6306 BHT FB 450° BECO PLUS | 30 | 72 | 19 | 350 | 60 | 10,19 | 16,3 |
| 6307 BHT FB 450° BECO PLUS | 35 | 80 | 21 | 450 | 55 | 11,88 | 19 |
| 6308 BHT FB 450° BECO PLUS | 40 | 90 | 23 | 620 | 50 | 15,6 | 25 |
| 6309 BHT FB 450° BECO PLUS | 45 | 100 | 25 | 830 | 45 | 20 | 32 |
| 6310 BHT FB 450° BECO PLUS | 50 | 110 | 27 | 1050 | 40 | 23,76 | 38 |
| 6311 BHT FB 450° BECO PLUS | 55 | 120 | 29 | 1350 | 40 | 29,69 | 47,5 |
| 6312 BHT FB 450° BECO PLUS | 60 | 130 | 31 | 1700 | 40 | 32,5 | 52 |
| 6313 BHT FB 450° BECO PLUS | 65 | 140 | 33 | 2100 | 40 | 37,5 | 60 |
| 6314 BHT FB 450° BECO PLUS | 70 | 150 | 35 | 2500 | 40 | 42,5 | 68 |
| 6315 BHT FB 450° BECO PLUS | 75 | 160 | 37 | 3000 | 40 | 47,8 | 76,5 |

OPERATING RANGE is the correct technical range in which can be used the bearing with good operating result.

ECONOMIC OPERATING RANGE is the range of temperature in which you can find, according to our study experience and know-how, the better relation price - quality life-time.