



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 stabilization, surface treatment, radial clearance and full ball fitting that make them suitable for operation from -50° to +450°C. Their recommended range of application is between 280° and 450°C. The BHT FB 450° BECO PLUS are open bearings, do not require lubrication. The bearings are ceramic coated on all the rotating parts. Important is that the ceramic coating is for lubrication and not for electrical insulation. 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:

Bearing material: steel AISI 52100 (Chrome) stabilized to the application
Treatment of manganese phosphate coating on all steel parts of the bearing + Treatment of ceramic coating
Radial Clearance 4xC5

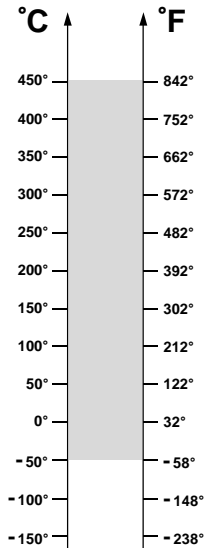
Fields of application:

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



BHT FB 450° BECO PLUS (6000 Serie)

Ball Bearings for Extreme Temperature



OPERATING RANGE: -50° / 450°C

ECONOMIC OPERATING RANGE: 300° / 450°C

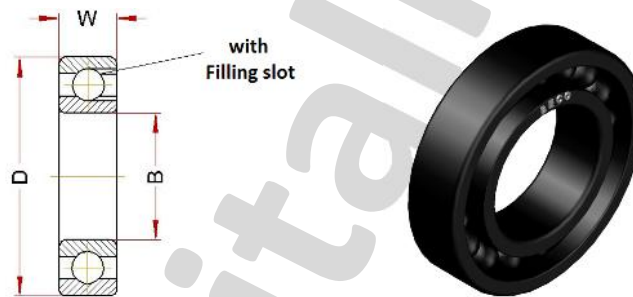
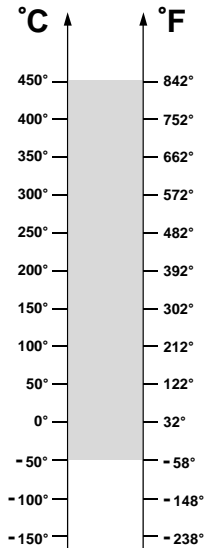
Designation	Bore (B)	Diam (D)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 450°C	Static Load, kN at 20°C
6000 BHT FB 450° BECO PLUS	10	26	8	20	90	1,22	1,96
6001 BHT FB 450° BECO PLUS	12	28	8	25	85	1,47	2,36
6002 BHT FB 450° BECO PLUS	15	32	9	30	80	1,78	2,85
6003 BHT FB 450° BECO PLUS	17	35	10	40	75	2,03	3,25
6004 BHT FB 450° BECO PLUS	20	42	12	69	70	3,12	5,00
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	5,00	8,00
6007 BHT FB 450° BECO PLUS	35	62	14	160	55	6,50	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	13,2	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	15,6	25,0
6014 BHT FB 450° BECO PLUS	70	110	20	600	40	19,6	31,5
6015 BHT FB 450° BECO PLUS	75	115	20	640	40	21,2	34,0

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

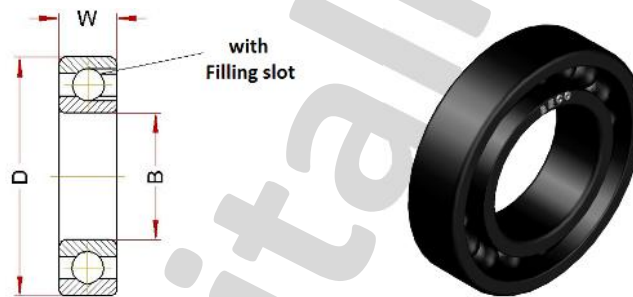
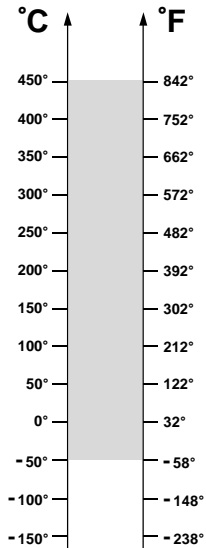
Designation	Bore (B)	Diam (D)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 450°C	Static Load, kN at 20°C
6200 BHT FB 450° BECO PLUS	10	30	9	30	90	1,62	2,60
6201 BHT FB 450° BECO PLUS	12	32	10	37	85	1,93	3,10
6202 BHT FB 450° BECO PLUS	15	35	11	45	80	2,34	3,75
6203 BHT FB 450° BECO PLUS	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	5,00	8,00
6206 BHT FB 450° BECO PLUS	30	62	16	200	60	7,00	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	11,2	18,0
6209 BHT FB 450° BECO PLUS	45	85	19	410	45	12,7	20,4
6210 BHT FB 450° BECO PLUS	50	90	20	460	40	15,0	24,0
6211 BHT FB 450° BECO PLUS	55	100	21	610	40	18,1	29,0
6212 BHT FB 450° BECO PLUS	60	110	22	780	40	22,5	36,0
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	44,0
6215 BHT FB 450° BECO PLUS	75	130	25	1210	40	30,6	49,0

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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)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 450°C	Static Load, kN at 20°C
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	5,40
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	8,50
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	10,1	16,3
6307 BHT FB 450° BECO PLUS	35	80	21	450	55	11,8	19,0
6308 BHT FB 450° BECO PLUS	40	90	23	620	50	15,6	25,0
6309 BHT FB 450° BECO PLUS	45	100	25	830	45	20,0	32,0
6310 BHT FB 450° BECO PLUS	50	110	27	1050	40	23,7	38,0
6311 BHT FB 450° BECO PLUS	55	120	29	1350	40	29,6	47,5
6312 BHT FB 450° BECO PLUS	60	130	31	1700	40	32,5	52,0
6313 BHT FB 450° BECO PLUS	65	140	33	2100	40	37,5	60,0
6314 BHT FB 450° BECO PLUS	70	150	35	2500	40	42,5	68,0
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.