



BHT FB 400°

Ball Bearings for Extreme Temperature

The BHT FB 400° 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 -40° to +400°C. Their recommended range of application is between 280° and 400°C. The BHT FB 400° are open bearings and require, additional lubrication with oil for high temperatures. 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 20 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 rotation 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
Radial Clearance 4xC5

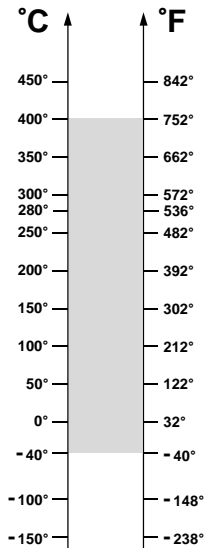
Fields of application:

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



BHT FB 400° (6000 Serie)

Ball Bearings for Extreme Temperature



OPERATING RANGE: -40° / 400°C

ECONOMIC OPERATING RANGE: 250° / 400°C

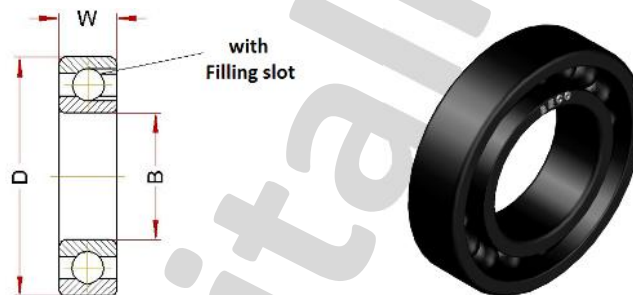
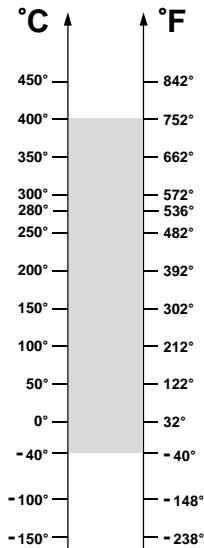
Designation	Bore (B)	Diam (D)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 400°C	Static Load, kN at 20°C
6000 BHT FB 400°	10	26	8	20	90	1,35	1,96
6001 BHT FB 400°	12	28	8	25	85	1,63	2,36
6002 BHT FB 400°	15	32	9	30	80	1,97	2,85
6003 BHT FB 400°	17	35	10	40	75	2,24	3,25
6004 BHT FB 400°	20	42	12	69	70	3,45	5,00
6005 BHT FB 400°	25	47	12	80	65	4,03	5,85
6006 BHT FB 400°	30	55	13	120	60	5,52	8,00
6007 BHT FB 400°	35	62	14	160	55	7,17	10,4
6008 BHT FB 400°	40	68	15	190	50	8,14	11,8
6009 BHT FB 400°	45	75	16	250	45	9,86	14,3
6010 BHT FB 400°	50	80	16	260	40	10,76	15,6
6011 BHT FB 400°	55	90	18	390	40	14,62	21,2
6012 BHT FB 400°	60	95	18	420	40	16,00	23,2
6013 BHT FB 400°	65	100	18	440	40	17,24	25,0
6014 BHT FB 400°	70	110	20	600	40	21,72	31,5
6015 BHT FB 400°	75	115	20	640	40	23,45	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 400° (6200 Serie)

Ball Bearings for Extreme Temperature



OPERATING RANGE: -40° / 400°C

ECONOMIC OPERATING RANGE: 250° / 400°C

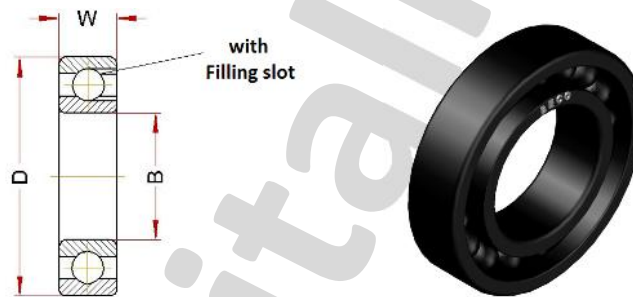
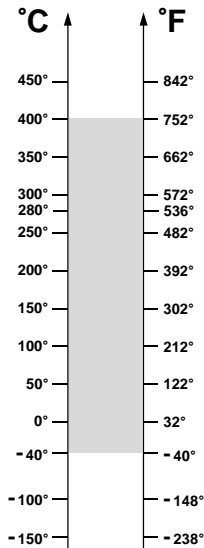
Designation	Bore (B)	Diam (D)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 400°C	Static Load, kN at 20°C
6200 BHT FB 400°	10	30	9	30	90	1,79	2,60
6201 BHT FB 400°	12	32	10	37	85	2,14	3,10
6202 BHT FB 400°	15	35	11	45	80	2,59	3,75
6203 BHT FB 400°	17	40	12	65	75	3,28	4,75
6204 BHT FB 400°	20	47	14	110	70	4,52	6,55
6205 BHT FB 400°	25	52	15	130	65	5,52	8,00
6206 BHT FB 400°	30	62	16	200	60	7,72	11,2
6207 BHT FB 400°	35	72	17	290	55	10,55	15,3
6208 BHT FB 400°	40	80	18	370	50	12,41	18,0
6209 BHT FB 400°	45	85	19	410	45	14,07	20,4
6210 BHT FB 400°	50	90	20	460	40	16,55	24,0
6211 BHT FB 400°	55	100	21	610	40	20,00	29,0
6212 BHT FB 400°	60	110	22	780	40	24,83	36,0
6213 BHT FB 400°	65	120	23	990	40	28,62	41,5
6214 BHT FB 400°	70	125	24	1040	40	30,34	44,0
6215 BHT FB 400°	75	130	25	1210	40	33,80	49,0

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

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BHT FB 400° (6300 Serie)

Ball Bearings for Extreme Temperature



OPERATING RANGE: -40° / 400°C

ECONOMIC OPERATING RANGE: 250° / 400°C

Designation	Bore (B)	Diam (D)	Width (W)	Weight, g	Limiting Speed, RPM	Static Load, kN at 400°C	Static Load, kN at 20°C
6300 BHT FB 400°	10	35	11	52	90	2,38	3,45
6301 BHT FB 400°	12	37	12	60	85	2,86	4,15
6302 BHT FB 400°	15	42	13	80	80	3,72	5,40
6303 BHT FB 400°	17	47	14	120	75	4,52	6,55
6304 BHT FB 400°	20	52	15	140	70	5,86	8,50
6305 BHT FB 400°	25	62	17	225	65	11,24	11,4
6306 BHT FB 400°	30	72	19	350	60	13,10	16,3
6307 BHT FB 400°	35	80	21	450	55	16,53	19,0
6308 BHT FB 400°	40	90	23	620	50	17,20	25,0
6309 BHT FB 400°	45	100	25	830	45	22,00	32,0
6310 BHT FB 400°	50	110	27	1050	40	26,20	38,0
6311 BHT FB 400°	55	120	29	1350	40	32,70	47,5
6312 BHT FB 400°	60	130	31	1700	40	35,90	52,0
6313 BHT FB 400°	65	140	33	2100	40	41,38	60,0
6314 BHT FB 400°	70	150	35	2500	40	46,90	68,0
6315 BHT FB 400°	75	160	37	3000	40	52,76	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.