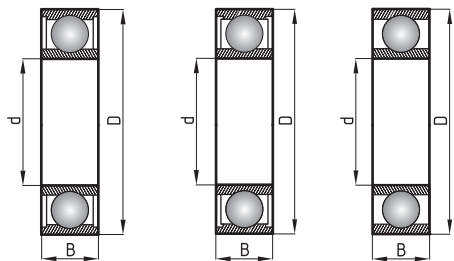


# EXTREME BEARINGS



d	D	B	Designation
6	19	6	626
	19	6	626 2RS
7	19	6	607
	19	6	607 ZZ
	19	6	607 2RS
	22	7	627
	22	7	627 2RS
8	22	7	608
	22	7	608 2RS
	24	8	628
	24	8	628 2RS
9	24	7	609
	24	7	609 2RS
	26	8	629
	26	8	629 2RS
10	26	8	6000
	26	8	6000 2RS
	30	9	6200
	30	9	6200 2RS
	35	11	6300
12	35	11	6300 2RS
	28	8	6001
	28	8	6001 ZZ
	28	8	6001 2RS
	32	10	6201
	32	10	6201 ZZ
15	32	10	6201 2RS
	35	11	6202
	35	11	6202 ZZ
17	35	11	6202 2RS
	40	12	6203
	40	12	6203 ZZ
20	40	12	6203 2RS
	47	14	6204
	47	14	6204 ZZ
25	47	14	6204 2RS
	52	15	6205
	52	15	6205 ZZ
30	52	15	6205 2RS
	62	16	6206
	62	16	6206 ZZ
	62	16	6206 2RS

Group: 7

Basic characteristics  
from 6 to 30 mm

## GEOMETRY

We guarantee that the bearings are manufactured in accordance with tolerance fields of applicable DIN, ISO and ANSI standards.

## STEEL CHEMICAL STRUCTURE

GCr15	Chemical structure (%)								
	C	wSi	Mn	P	S	Cr	Mo	Mi	Al
	0,95-1,05	0,15-0,35	0,20-0,40	< 0,027	< 0,02	1,30-1,65	< 0,10	0,15-0,35	< 0,05

High carbon – chrome steel GCr15 is the standard material for bearings and rolling elements.

With thermal processing the hardness from 58 to 65 HRC is achieved.

## COMPARISON OF STEEL DESIGNATIONS

Country	USA	GERMANY	JAPAN	FRANCE	ISO standard	CHINA	SWEDEN
Symbol	AISI	DIN	JIS	NF	638/XV11	GB	SKF3
	52100	100Cr6	SVJ2	100C6		GCr15	

## VIBRATIONS AND NOISINESS

d	0				2				4			
	Z1	Z2	Z3	Z4	Z1	Z2	Z3	Z4	Z1	Z2	Z3	Z4
4	34	32	30	27	35	32	30	28	36	33	31	28
5	36	34	31	27	37	34	32	28	37	35	33	30
6	36	34	31	27	37	34	32	28	37	35	33	30
7	38	35	32	28	38	36	34	30	39	36	34	31
8	38	35	32	28	38	36	34	30	39	36	34	31
9	40	36	32	28	40	37	35	30	42	38	36	33
10	42	38	34	30	42	39	35	31	44	40	37	34
12	43	39	35	30	43	39	35	31	45	40	37	34
15	44	40	36	31	44	41	35	32	46	42	38	35
17	44	40	36	31	45	41	36	32	47	42	38	35
20	45	41	37	33	46	42	38	33	48	43	39	36
25	46	42	38	34	47	43	40	35	49	44	41	38
30	47	43	39	35	48	44	41	36	50	45	42	39

dB decibel

## ACCELERATIONS

d	V1			V2			V3			V4		
	L	M	H	L	M	H	L	M	H	L	M	H
4	60	35	32	48	26	22	31	16	15	28	10	10
5	74	48	40	58	30	30	35	21	18	32	11	11
6	74	48	40	58	36	40	35	21	18	32	11	11
7	92	66	54	72	38	40	44	28	24	38	12	12
8	92	66	54	72	38	40	44	28	24	38	12	12
9	92	66	54	72	48	40	44	28	24	38	12	12
10	120	80	70	90	48	50	55	35	30	45	14	15
12	120	80	70	90	50	50	55	35	30	45	14	15
15	150	100	85	110	50	60	65	46	35	52	18	18
17	150	100	85	110	50	60	65	46	35	52	25	25
20	180	125	100	130	78	75	80	60	45	60	25	25
25	180	125	100	130	78	75	80	60	45	60	30	32
30	200	150	130	150	100	100	90	75	60	70	35	40

d Bearing bore diameter

L Low level

M Middle level

H High level

V1

V2

V3

m/s Nominal value units

## RADIAL INTERNAL CLEARANCE (ISO 5753)

C2	Radial internal clearance smaller than normal
CN (C0)	Radial internal clearance within normality limits
C3	Radial internal clearance larger than normal
C4	Radial internal clearance larger than C3
C5	Radial internal clearance larger than cC4

Bore d [mm]	Above	2,5	10	18	24	30	40	50	65	80	100	120	140	160	180	200	225	250
	to	10	18	24	30	40	50	65	80	100	120	140	160	180	200	225	250	280
C2 [m]	Min.	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	Max.	7	9	10	11	11	11	15	15	18	20	23	23	25	30	36	40	45
CN [m]	Min.	2	3	5	5	5	6	8	10	12	15	18	18	20	25	30	33	35
	Max.	13	18	20	20	20	23	28	30	36	41	48	53	61	71	85	95	100
C3 [m]	Min.	8	11	13	13	15	18	23	25	30	36	41	46	53	63	77	87	90
	Max.	23	25	28	28	33	36	43	51	58	66	81	91	102	117	137	157	170
C4 [m]	Min.	14	18	20	23	28	30	38	46	53	61	71	81	91	107	127	147	157
	Max.	29	33	36	41	46	51	61	71	84	97	114	130	147	163	195	225	245
C5 [m]	Min.	20	25	28	30	40	45	55	65	75	90	105	120	135	150	180	210	230
	Max.	27	45	48	53	64	73	90	105	120	140	160	180	200	230	270	300	340

## CAGES

Steel sheet cage	steel sheet cage	J
Ribbon cage	brass sheet cage	Y
One-piece steel cage	machined steel cage	F
Window type cage	machined brass cage – roller riding machined brass cage – outer ring guidance	M MA
Glass fibre reinforced polyamide cage 6.6	synthetic polyamide cage (9)	TN

## LUBRICANTS AND APPLIED FUNCTIONALITY

In accordance with the optimal capacity of a bearing, which is a component part in an electrical motor, a suitable lubricant must be selected. Thereby the bearing service life is prolonged, and the premature failure is avoided.

Lubricants in use:

Manufacturer	Designation	Liquid °C	Penetration at 25 °C	Working temperature °C
SHELL	Alvania RL2	185	265 - 295	- 35 do 120
	Alvania RL3	185	220 - 250	- 35 do 135
	Alvania RA	180	250 - 275	- 25 do 100
	Alvania EP1	180	310 - 340	- 25 do 110
	Alvania EP2	185	265 - 295	- 25 do 110
	Darina 2	250	265 - 295	- 25 do 150
	Darina EP2	250	265 - 295	- 25 do 150
	Darina R2	250	265 - 295	- 35 do 150
ESSO	Andok C	260	190 - 210	- 30 do 120
	Andok 260	190	204 - 260	- 40 do 120
	Beacon 325	190	255 - 280	- 54 do 120
MOBIL	Mobilux 2	190	265 - 290	- 10 do 110
	Mobil 22	192	250 - 274	- 40 do 120
	Mobil 28	260	265 - 295	- 55 do 175
	Mobil 48	260	240 - 270	- 60 do 170
CHEVRON	SRI-2	240	255 - 280	- 30 do 120
KLUBER	Isoflex LDS 18	190	255 - 280	- 50 do 110
	Isoflex NBU 15	250	255 - 280	- 30 do 120
CHINA HANGU	Hangu 2	198	265-295	- 10 do 130
KYODO YUSHI	Multemp SRL	185	225 - 245	- 40 do 145
	Multemp PS2	190	250 - 275	- 50 do 110
	Multemp ET150	260	255 - 280	- 10 do 160