

# 軸受製品の各種精度レベル

## 軸受精度等級

Country	Standard	Accuracy Grade				
China	GB307.1	0	6	5	4	2
International Standard Organization	ISO	0	6	5	4	2
Sweden	SKF	P0	P6	P5	P4	P2
Germany	DIN	P0	P6	P5	P4	P2
Japan	JIS	P0	P6	P5	P4	P2
U.S.A	ANSI	ABEC1	ABEC3	ABEC5	ABEC7	ABEC9

## 内外径公差

### 内径公差

d mm		$\Delta dmp$	
over	to	high	low
0.6	2.5	0	-8
2.5	10	0	-8
10	18	0	-8
18	30	0	-10
30	50	0	-12

### 外径公差

D mm		$\Delta Dmp$	
over	to	high	low
2.5	6	0	-8
6	18	0	-8
18	30	0	-9
30	50	0	-11
50	80	0	-13

## ラジアルすきま

Bore diameter d(mm)		C2		CN		C3		C4		C5	
over	to	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2.5	6	0	7	2	13	8	23	—	—	—	—
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64

## 国別呼称

Country	China	ISO	U.S.A	Germany	Japan	Sweden
Bearing Steel No.	GCr15	683/X VIII1	(AISI)52100	(Din)100Cr6	(JIS)SUJ2	SKF3

## 各種材料

### Chemical Composition(%)

No	C	Mn	Si	Cr	S	P	Ni	Cu	HRC
					<				
GCr15	0.95~1.05	0.20~0.40	0.15~0.35	1.30~1.65	0.02	0.027	0.3	0.25	57~65
S25C	0.22~0.28	0.30~0.60	0.15~0.35	<0.20	0.03	0.03	0.2	0.3	
S45C	0.42~0.48	0.60~0.90	0.15~0.35	<0.20	0.03	0.03	0.2	0.3	

### Chemical Composition(%)

No	C	Cr	Si	Mn	S	P	Mo	Ni	HRC
SUS440C	0.90~1.05	17~19	≤0.8	≤0.7	≤0.03	≤0.035			57~65
SUS304	0.08	18~20	≤1	≤2	≤0.03	≤0.035		8~10.5	