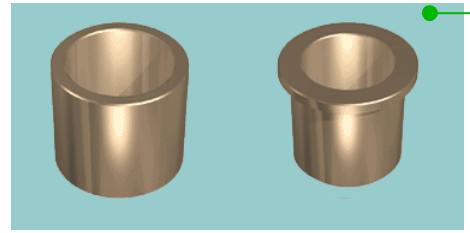


Sinterbronce BP25 (A50) – self lubricating bearing material

1. Structure

Sintered bronze (BP25: 8 – 10,5% Sn, <2% other, Cu balance) impregnated with oil (SINT A50) produced according to ISO 2795. Impregnation group 1 (up to +80°C).



2. Characteristics

- general purpose maintenance free bearing material,
- optimal performance with light loads and high speeds,
- thanks to porous structure of sintered material, lubricant is transferred via capillary tubes,
- produced by powder metallurgy process and therefore suitable for complex shapes,
- wide range of parts available from stock.

3. Applications

- electric motors and gears, domestic appliances, audio and video appliances, precision mechanics, hand tools etc.

4. Availability

- ex stock: cylindrical bushes, flanged bushes,
- to order: non standard parts.

5. Technical data

Parameter		Unit	Value
Maximum load	static	MPa	20
	dynamic		10
Maximum sliding speed	oil impregnated	m/s	6
Maximum p x v factor	oil impregnated	MPa x m/s	5
Work temperature	maximum	°C	+90
	minimum		-5
Coefficient of friction	oil impregnated	-	0,08 – 0,12
Surface Ra finish	shaft	µm	0,3 – 0,8
	housing		1,8 – 3,2
Fitting	shaft	-	f7
	housing		H7
Shaft hardness		HB	>200

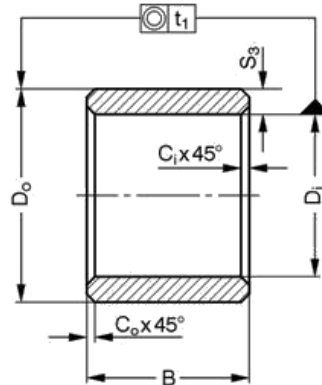
6. Working conditions

dry	good
oil lubricated	good
grease lubricated	fair
water lubricated	not suitable
process fluid lubricated	not suitable

7. Assembly tips

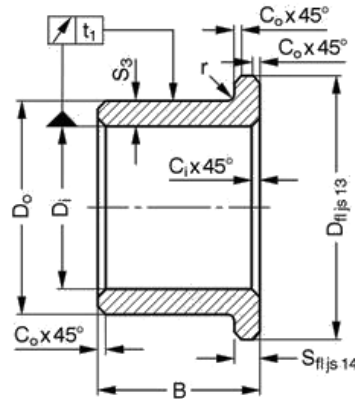
To assemble under steady pressure. For assembly use m5 shaft.
Additional machining of bushes permitted.

8. Series range



Tab. 1. Cylindrical bushes

Symbol	Di	Do	B	Symbol	Di	Do	B	Symbol	Di	Do	B	Symbol	Di	Do	B
020502BP25	2	5	2	101410BP25	10	14	10	182222BP25	18	22	22	303830BP25	30	38	30
020503BP25	2	5	3	101416BP25	10	14	16	182228BP25	18	22	28	303838BP25	30	38	38
030604BP25	3	6	4	101420BP25	10	14	20	182236BP25	18	22	36	323820BP25	32	38	20
030606BP25	3	6	6	101425BP25	10	14	25	182418BP25	18	24	18	323825BP25	32	38	25
030610BP25	3	6	10	101510BP25	10	15	10	182422BP25	18	24	22	323832BP25	32	38	32
040704BP25	4	7	4	101516BP25	10	15	16	182428BP25	18	24	28	323840BP25	32	38	40
040708BP25	4	7	8	101520BP25	10	15	20	182436BP25	18	24	36	323850BP25	32	38	50
040712BP25	4	7	12	101525BP25	10	15	25	182518BP25	18	25	18	324025BP25	32	40	25
040804BP25	4	8	4	101610BP25	10	16	10	182522BP25	18	25	22	324032BP25	32	40	32
040808BP25	4	8	8	101616BP25	10	16	16	182528BP25	18	25	28	324040BP25	32	40	40
040812BP25	4	8	12	101620BP25	10	16	20	182536BP25	18	25	36	324050BP25	32	40	50
050805BP25	5	8	5	101625BP25	10	16	25	202416BP25	20	24	16	354422BP25	35	44	22
050808BP25	5	8	8	121512BP25	12	15	12	202420BP25	20	24	20	354428BP25	35	44	28
050810BP25	5	8	10	121516BP25	12	15	16	202425BP25	20	24	25	354435BP25	35	44	35
050812BP25	5	8	12	121520BP25	12	15	20	202432BP25	20	24	32	354525BP25	35	45	25
050816BP25	5	8	16	121525BP25	12	15	25	202516BP25	20	25	16	354535BP25	35	45	35
050904BP25	5	9	4	121612BP25	12	16	12	202520BP25	20	25	20	354540BP25	35	45	40
050905BP25	5	9	5	121616BP25	12	16	16	202525BP25	20	25	25	354550BP25	35	45	50
050908BP25	5	9	8	121620BP25	12	16	20	202532BP25	20	25	32	364245BP25	36	42	45
060906BP25	6	9	6	121625BP25	12	16	25	202616BP25	20	26	16	364545BP25	36	45	45
060910BP25	6	9	10	121712BP25	12	17	12	202620BP25	20	26	20	384425BP25	38	44	25
060912BP25	6	9	12	121716BP25	12	17	16	202625BP25	20	26	25	384445BP25	38	44	45
060916BP25	6	9	16	121720BP25	12	17	20	202632BP25	20	26	32	404625BP25	40	46	25
061006BP25	6	10	6	121725BP25	12	17	25	202816BP25	20	28	16	404632BP25	40	46	32
061010BP25	6	10	10	121812BP25	12	18	12	202820BP25	20	28	20	404640BP25	40	46	40
061012BP25	6	10	12	121816BP25	12	18	16	202832BP25	20	28	32	404650BP25	40	46	50
061016BP25	6	10	16	121820BP25	12	18	20	222718BP25	22	27	18	405025BP25	40	50	25
061206BP25	6	12	6	121825BP25	12	18	25	222728BP25	22	27	28	405032BP25	40	50	32
061210BP25	6	12	10	141814BP25	14	18	14	222736BP25	22	27	36	405040BP25	40	50	40
061212BP25	6	12	12	141818BP25	14	18	18	222818BP25	22	28	18	405050BP25	40	50	50
061216BP25	6	12	16	141822BP25	14	18	22	222822BP25	22	28	22	455128BP25	45	51	28
071005BP25	7	10	5	141828BP25	14	18	28	222828BP25	22	28	28	455535BP25	45	55	35
071008BP25	7	10	8	142014BP25	14	20	14	222836BP25	22	28	36	455545BP25	45	55	45
071010BP25	7	10	10	142018BP25	14	20	18	222918BP25	22	29	18	455628BP25	45	56	28
081108BP25	8	11	8	142022BP25	14	20	22	222936BP25	22	29	36	455636BP25	45	56	36
081112BP25	8	11	12	142028BP25	14	20	28	253020BP25	25	30	20	455656BP25	45	56	56
081116BP25	8	11	16	151916BP25	15	19	16	253025BP25	25	30	25	505640BP25	50	56	40
081120BP25	8	11	20	151920BP25	15	19	20	253032BP25	25	30	32	506032BP25	50	60	32
081208BP25	8	12	8	151925BP25	15	19	25	253040BP25	25	30	40	506040BP25	50	60	40
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081220BP25	8	12	20	152120BP25	15	21	20	253232BP25	25	32	32	556540BP25	55	65	40
081408BP25	8	14	8	152125BP25	15	21	25	253240BP25	25	32	40	556555BP25	55	65	55
081412BP25	8	14	12	152132BP25	15	21	32	283222BP25	28	32	22	556570BP25	55	65	70
081416BP25	8	14	16	162016BP25	16	20	16	283236BP25	28	32	36	607050BP25	60	70	50
081420BP25	8	14	20	162020BP25	16	20	20	283245BP25	28	32	45	607060BP25	60	70	60
091206BP25	9	12	6	162025BP25	16	20	25	283322BP25	28	33	22	607090BP25	60	70	90
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091214BP25	9	12	14	162216BP25	16	22	16	283622BP25	28	36	22	708090BP25	70	80	90
101310BP25	10	13	10	162220BP25	16	22	20	283628BP25	28	36	28	7080120BP25	70	80	120
101316BP25	10	13	16	162225BP25	16	22	25	283636BP25	28	36	36	100120120BP25	100	120	120
101320BP25	10	13	20	162232BP25	16	22	32	283645BP25	28	36	45				
101325BP25	10	13	25	182218BP25	18	22	18	303824BP25	30	38	24				



Tab. 2. Flanged bearings

Symbol	Di	Do	B	Dfl	Symbol	Di	Do	B	Dfl	Symbol	Di	Do	B	Dfl
BB030604BP25	3	6	4	9	BB142014BP25	14	20	14	26	BB253020BP25	25	30	20	35
BB030606BP25	3	6	6	9	BB142018BP25	14	20	18	26	BB253025BP25	25	30	25	35
BB030610BP25	3	6	10	9	BB142022BP25	14	20	22	26	BB253032BP25	25	30	32	35
BB040804BP25	4	8	4	12	BB142028BP25	14	20	28	26	BB253220BP25	25	32	20	39
BB040808BP25	4	8	8	12	BB151916BP25	15	19	16	23	BB253225BP25	25	32	25	39
BB040812BP25	4	8	12	12	BB151920BP25	15	19	20	23	BB253232BP25	25	32	32	39
BB061006BP25	6	10	6	14	BB152116BP25	15	21	16	27	BB283622BP25	28	36	22	44
BB061010BP25	6	10	10	14	BB152120BP25	15	21	20	27	BB283636BP25	28	36	36	44
BB061016BP25	6	10	16	14	BB152125BP25	15	21	25	27	BB303820BP25	30	38	20	46
BB081208BP25	8	12	8	16	BB152132BP25	15	21	32	27	BB303825BP25	30	38	25	46
BB081212BP25	8	12	12	16	BB162016BP25	16	20	16	24	BB303830BP25	30	38	30	46
BB081216BP25	8	12	16	16	BB162020BP25	16	20	20	24	BB323820BP25	32	38	20	44
BB091410BP25	9	14	10	19	BB162025BP25	16	20	25	24	BB323825BP25	32	38	25	44
BB091414BP25	9	14	14	19	BB162216BP25	16	22	16	28	BB323832BP25	32	38	32	44
BB101310BP25	10	13	10	16	BB162220BP25	16	22	20	28	BB324020BP25	32	40	20	48
BB101316BP25	10	13	16	16	BB162225BP25	16	22	25	28	BB324025BP25	32	40	25	48
BB101320BP25	10	13	20	16	BB162232BP25	16	22	32	28	BB324030BP25	32	40	30	48
BB101510BP25	10	15	10	20	BB182218BP25	18	22	18	26	BB324032BP25	32	40	32	48
BB101516BP25	10	15	16	20	BB182222BP25	18	22	22	26	BB364522BP25	36	45	22	54
BB101520BP25	10	15	20	20	BB182228BP25	18	22	28	26	BB364528BP25	36	45	28	54
BB101608BP25	10	16	8	22	BB182418BP25	18	24	18	30	BB364536BP25	36	45	36	54
BB101610BP25	10	16	10	22	BB182422BP25	18	24	22	30	BB404625BP25	40	46	25	52
BB101616BP25	10	16	16	22	BB182428BP25	18	24	28	30	BB404632BP25	40	46	32	52
BB121512BP25	12	15	12	18	BB202416BP25	20	24	16	28	BB404640BP25	40	46	40	52
BB121516BP25	12	15	16	18	BB202420BP25	20	24	20	28	BB405025BP25	40	50	25	60
BB121520BP25	12	15	20	18	BB202425BP25	20	24	25	28	BB405032BP25	40	50	32	60
BB121712BP25	12	17	12	22	BB202616BP25	20	26	16	32	BB405040BP25	40	50	40	60
BB121716BP25	12	17	16	22	BB202620BP25	20	26	20	32	BB455145BP25	45	51	45	57
BB121720BP25	12	17	20	22	BB202625BP25	20	26	25	32	BB505632BP25	50	56	32	62
BB121725BP25	12	17	25	22	BB202632BP25	20	26	32	32	BB506032BP25	50	60	32	70
BB121808BP25	12	18	8	24	BB222718BP25	22	27	18	32	BB506040BP25	50	60	40	70
BB121812BP25	12	18	12	24	BB222722BP25	22	27	22	32	BB506050BP25	50	60	50	70
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BB141814BP25	14	18	14	22	BB222825BP25	22	28	25	34	BB607060BP25	60	70	60	80
BB141818BP25	14	18	18	22	BB222922BP25	22	29	22	36					
BB141822BP25	14	18	22	22	BB222936BP25	22	29	36	36					