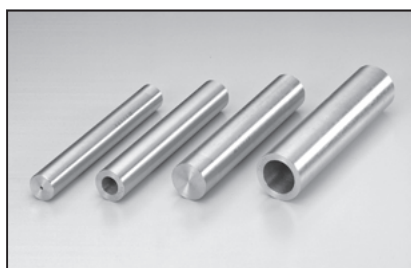


Oiles 600 Wear-resistant copper alloy bearings



Feature

- Demonstrates wear resistance and seizure resistance in lubricated conditions.
- Reduces the frequency of lubrication.
- Demonstrates especially high running-in characteristics.
- Materials for machining are available.

Service range

Lubrication condition	periodic lubrication	oil lubrication
Service temperature range °C	-40~+150	
Allowable max. pressure P N/mm ² {kgf/cm ² }	15 {153}	
Allowable max. velocity V m/s {m/min}	1.65 {99}	5.00 {300}
Allowable max. PV value N/mm ² · m/s {kgf/cm ² · m/min}	1.65 {1,010}	3.25 {1,990}

Mechanical properties

Density	—	g/cm ³	8.5
Tensile strength	JIS Z 2241	N/mm ² {kgf/mm ² }	150 {15}
Impact strength	JIS Z 2242	J/cm ² {kgf/cm ² }	10 {1}
Hardness	JIS Z 2243	HBW	60
Modulus of longitudinal elasticity	—	N/mm ² {kgf/mm ² }	83,000 {8,500}
Co-efficient of linear expansion	—	×10 ⁻⁵ °C ⁻¹	1.8
Thermal conductivity	—	W/m°C {cal/sec°Ccm}	71.1 {0.17}

※The values shown above are typical values, not the standard values.

Lathe turning

Cutting tool	carbide tool (JIS)	
	Relief angle	5~10°
	Rake angle	2~5°
Condition	Nose radius (mm)	0.40~0.80
	Speed (m/min)	100~200
	Cut depth (mm)	0.05~0.30
	Feed (mm/rev)	0.08~0.30

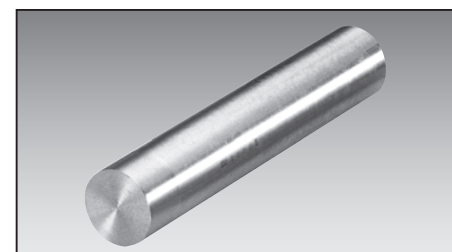
Machining accuracy (bushing)

I.D.	O.D.	Length
class 7 to 8	class 6 to 7	class 8 to 9

Classes here are in JIS standard.

This product demonstrates satisfactory performance at the slide surface roughness of Rz6.3 to 12.5μm.

36M Oiles 600 Bar Stock



Specify Part No. by required diameter.

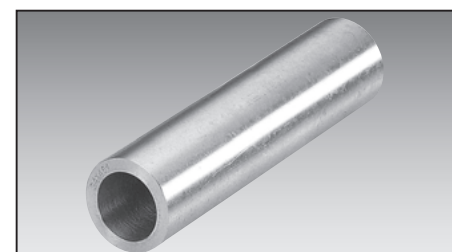
(e.g.) Diameter is 36mm. **36M - 36**
Part No.



- Length and diameter shown here are rough finished dimensions.
- Need to be oil-impregnated before use.

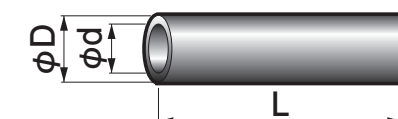
Part No.	Diameter		Length	
	φD	Tolerance	L	Tolerance
36M-16	16	+0.5 0	202	+1.0 0
36M-21	21	+0.5 0	202	+1.0 0
36M-26	26	+0.5 0	202	+1.0 0
36M-31	31	+0.5 0	202	+1.0 0
36M-36	36	+0.5 0	202	+1.0 0
36M-41	41	+0.5 0	202	+1.0 0
36M-46	46	+0.5 0	202	+1.0 0
36M-51	51	+0.5 0	202	+1.0 0
36M-56	56	+0.5 0	202	+1.0 0
36M-61	61	+0.5 0	202	+1.0 0

36S Oiles 600 Bushing Material



Specify Part No. by required I.D. and O.D.

(e.g.) I.D. is 34mm and O.D. is 51mm. **36S - 3451**
Part No.



- Inner and outer diameter and Length shown here are rough finished dimensions.
- Need to be oil-impregnated before use.

Part No.	I.D.		O.D.		Length	
	φd	Tolerance	φD	Tolerance	L	Tolerance
36S-1931	19	0 -0.5	31	+0.5 0	202	+1.0 0
36S-1936	19	0 -0.5	36	+0.5 0	202	+1.0 0
36S-2436	24	0 -0.5	36	+0.5 0	202	+1.0 0
36S-2941	29	0 -0.5	41	+0.5 0	202	+1.0 0
36S-2946	29	0 -0.5	46	+0.5 0	202	+1.0 0
36S-3446	34	0 -0.5	46	+0.5 0	202	+1.0 0
36S-3451	34	0 -0.5	51	+0.5 0	202	+1.0 0
36S-3951	39	0 -0.5	51	+0.5 0	202	+1.0 0
36S-3966	39	0 -0.5	66	+0.5 0	202	+1.0 0
36S-4456	44	0 -0.5	56	+0.5 0	202	+1.0 0
36S-4961	49	0 -0.5	61	+0.5 0	202	+1.0 0
36S-4971	49	0 -0.5	71	+0.5 0	202	+1.0 0
36S-5981	59	0 -0.5	81	+0.5 0	202	+1.0 0
36S-6986	69	0 -0.5	86	+0.5 0	202	+1.0 0