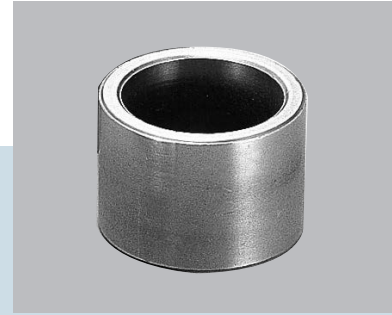


DAILUBO

(oil-impregnated sintered bearings)



APPLICATION

We produce oil-impregnated sintered copper and steel bearings to customer specifications.

MANUFACTURE

Material properties and major applications

Metallic Polymer MATERIALS AND SIZE

Materials and symbols	Copper			Steel				
	DLC-00	DLC-07	DLC-15	DLF-98	DLF-98C	DLF-55	DLF-53	DLF-53C
Chemical composition (wt%)								
Cu	Residual	Residual	Residual	1–3	1–3	25–35	38–48	38–48
Sn	8–11	8–11	8–11	–	–	–	2–4	2–4
C	–	0.5–1	1–2	–	0.2–0.8	–	–	0.2–0.8
Pb	–	–	–	–	–	–	–	–
Zn	–	–	–	–	–	–	–	–
Fe	–	–	–	Residual	Residual	Residual	Residual	Residual
Other	0.5 or less	0.5 or less	0.5 or less	3 or less	3 or less	3 or less	3 or less	3 or less
Radial crushing strength N/mm ²	150–360	150–200	120–170	200–300	250–350	140–200	150–250	150–250
Density g/cm ³	6.4–7.2	6.2–7.0	6.2–7.0	5.6–6.4	5.6–6.4	5.8–6.5	5.8–6.5	5.8–6.5
Oil content (min. vol%)	12	18	15	18	18	15	15	15
PV value limit in MPa·m/min	80	100	100	100	150	100	120	150
Speed	High speed	×	○	○	○	○	○	○
	Medium speed	○	○	⊙	○	○	○	○
	Low speed	○	○	○	○	○	○	○
	Intermittent	×	○	○	○	○	○	○
	Oscillating	×	△	○	△	△	○	○
Load	High	Medium	Medium	High	High	Medium	Medium	Medium
Acoustics	○	○	○	△	△	○	△	○
Machinability	⊙	○	△	○	△	○	○	△

PLANNING

CORPORATE PROFILE

SPECIFICATION SHEET

Symbol	Applications	Characteristics
DLC-00	Tape recorders, carriages, miniature motors	Excellent machining and caulking properties
DLC-07	Tape recorders, cash registers, carriages	Excellent caulking properties
DLC-15	Fans, exhaust fans, capstans	Low-noise bearings, general purpose material for oil-impregnated sintered copper bearings
DLF-98	Speedometers, collars, gears, boxes	Excellent machining and caulking properties, suitable for use in mechanical structures
DLF-98C	Gearred motors, spacers, steering systems	High strength, general purpose material for oil-impregnated sintered steel bearings
DLF-55	Office automation equipment, AC motors	Low-noise bearing, alternative to copper, excellent conformability
DLF-53	Office automation equipment, AC motors	Excellent conformability
DLF-53C	Office automation equipment, AC motors, stepping motors	

Types of oil impregnation

ISO VG68 turbine oil or equivalent is standard, but other oils can be impregnated per customer specifications.

Dimensional tolerances

JIS B 1581 or equivalent. High-precision bearings are manufactured per customer specifications. Please inquire directly.