



APPLICATION

This product is an environmentally friendly "lead-free bearing." The material structure of DAIDYNE DDK02 consists of multiple layers of PTFE resin + porous intermediate layer + steel lining (similar to that of DDK05) and due to the improvement of the sliding layer and porous layer, boundary surface performance and fluid lubrication have also improved.

MANUFACTURE

### Features

- Offers excellent wear-resistance along boundary surfaces and under fluid lubrication.  
Provides three to five times the wear resistance of DDK05.
- Offers low friction characteristics along boundary surfaces and under fluid lubrication.  
Even less friction than DDK05.
- Excellent corrosion resistance  
Suitable for a wide range of applications.

Polymer MATERIALS AND SIZE

### Performance Comparison between DDK05 and DDK02

The following results show the comparison of the amount of wear and the friction coefficient under the conditions of lubrication using shock absorber oil.

	Wear amount (μm)			Friction Coefficient	
	10	20	30	0.01	0.02
DDK05	[Bar chart showing wear amount up to ~15 μm]			[Bar chart showing friction coefficient up to ~0.015]	
DDK02	[Bar chart showing wear amount up to ~5 μm]			[Bar chart showing friction coefficient up to ~0.005]	

Test Conditions	
1. Bushing Size (mm)	φ20×φ23×20L
2. Speed (m/min)	3
3. Specific Load (MPa)	19.6
4. Clearance (Diameter)(mm)	0.08
5. Lubrication	SAE#10, 0.15 mm <sup>3</sup> /min
6. Temperature	Room Temperature
7. Shaft Material Roughness (μm Rmax) Hardness (Hv)	S55C 1.0 700
8. Test Time (H)	100

PLANNING

CORPORATE PROFILE

SPECIFICATION SHEET

## Standard Dimensions of the DDK02 Bushing



Thickness Dimensions of the DDK02 Bushing (Unit:mm)

Bushing nominal inner diameter		Thickness (T)
min	max	
-	φ19	1.0 <sup>0</sup> <sub>-0.020</sub>
φ19	φ25	1.5 <sup>0</sup> <sub>-0.020</sub>
φ25	φ40	2.0 <sup>0</sup> <sub>-0.025</sub>
φ40	φ60	2.5 <sup>0</sup> <sub>-0.040</sub>
φ60	φ160	2.47 <sup>0</sup> <sub>-0.050</sub>

Identical to DDK05 bushings except for wall thickness tolerances.  
Please see pages 58 to 61 for DDK05 bushing dimensions.