

1.6. Fitting

The fitting between the Spherical Bearing and the shaft or the housing is selected according to the service conditions. Table 5 shows recommended values.

Table 5 Recommended Fitting Values

Service conditions		Shaft	Housing
Inner ring rotational load	Normal load	k6	H7
	Indeterminate load	m6	H7
Outer ring rotational load	Normal load	g6	M7
	Indeterminate load	h6	N7

Note 1: If the product is to be installed so that the inner ring rotates and the fitting with the shaft is to be clearance fitting, harden the surface of the shaft in advance.

Note 2: "N7" is recommended for light alloy housings.

Shaft Designing

If the inner ring is to be fit onto the shaft in clearance fitting and the product is to be used under a heavy load, the shaft may slip on the inner circumference of the inner ring. To prevent the slippage, the shaft hardness must be 58 HRC or higher and the surface roughness must be 0.80 μ m or below.