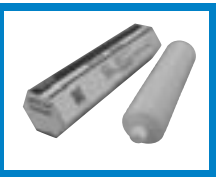
THK Original Grease

AFE-CA Grease

●Base oil: high-grade synthetic oil
●Consistency enhancer: urea-based



AFE-CA grease uses high-grade synthetic oil as its base and a urea-based grease as its consistency enhancer. This ensures it produces very little dust, making it ideal for use in clean environments.

[Features]

(1) Low dust generation
This grease generates the least amount of dust among all THK low dust-generating grease products. Contains zero metallic elements, making it ideal for use in semiconductor-related fields.

[Representative Physical Properties]

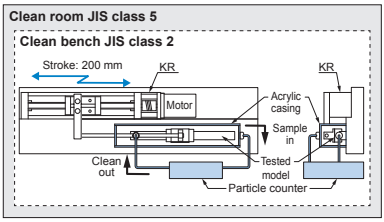
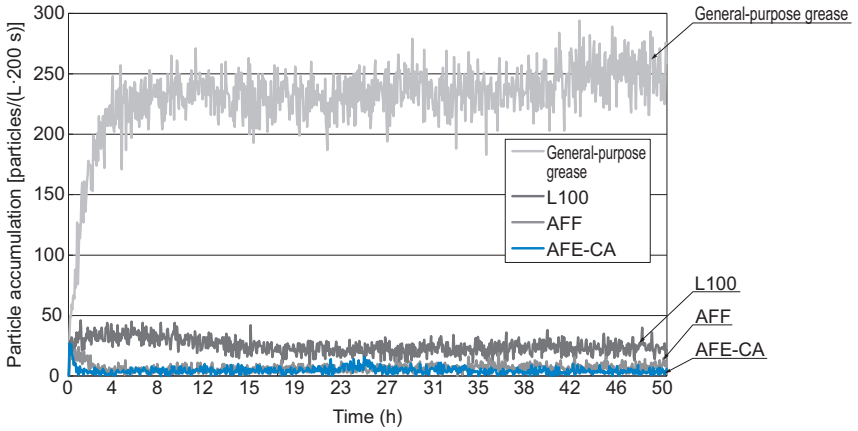
Item		Representative value	Test method
Consistency enhancer		Urea-based	
Base oil		High-grade synthetic oil	
Base oil kinematic viscosity: mm^2/s (40℃)		99	JIS K 2220 23
Worked penetration (25℃, 60 W)		280	JIS K 2220 7
Mixing stability (100,000 W)		310	JIS K 2220 15
Dropping point: ℃		260	JIS K 2220 8
Evaporation amount: mass% (99℃, 22 h)		0.1	JIS K 2220 10
Oil separation rate: mass% (100℃, 24 h)		0.1	JIS K 2220 11
Copper plate corrosion (B method, 100℃, 24 h)		Accepted	JIS K 2220 9
Low-temperature torque: mN·m (−20℃)	Starting	130	JIS K 2220 18
	Rotational	76	
4-ball testing (welding load): N		1236	ASTM D2596
Service temperature range: ℃		−40 to 180	
Color		Light yellowish brown	

[Low Dust-Generating Performance Test Data]

● AFE-CA Grease Test Data (Comparison of Dust Generation)

Test conditions

Item	Description
Tested model	SSR20XW1+280L
Grease quantity	1.2 cm^3 (initial lubrication only)
Amount of air supplied	0.3 L/min
Feeding speed	500 mm/s
Stroke	200 mm



Testing device