Lubrication

L700 Grease

THK Original Grease

L700 Grease

- Base oil: high-grade synthetic oil
- Oconsistency enhancer: calcium sulfonate complex-based



L700 Grease is an H1 grease product certified and registered by NSF International.* Using a high-grade synthetic oil as the base oil in conjunction with a calcium sulfonate complex-based consistency enhancer, L700 Grease maintains excellent water and corrosion resistance and withstands extreme pressure. It is intended for use in medical, pharmaceutical, and food equipment.

- * A third party certification body for matters related to public safety and health
- *This product cannot be used in Europe.

[Features]

- (1) NSF-certified
 - L700 Grease is an H1 grease product certified and registered by NSF International (NSF H1).
- (2) Water and corrosion resistance Calcium sulfonate (the consistency enhancer) makes L700 Grease more resistant to water and corrosion than ordinary H1 grease.
- (3) Extreme pressure resistance L700 Grease displays better extreme pressure resistance than general-purpose grease.

[Representative Physical Properties]

Item		Representative value	Test method
Consistency enhancer		Calcium sulfonate complex-based	
Base oil		High-grade synthetic oil	
Base oil kinematic viscosity: mm²/s (40°C)		89	JIS K 2220 23
Worked penetration (25°C, 60 W)		314	JIS K 2220 7
Mixing stability (100,000 W)		324	JIS K 2220 15
Dropping point: ℃		250	JIS K 2220 8
Evaporation amount: mass% (99°C, 22 h)		0.15	JIS K 2220 10
Oil separation rate: mass% (100°C, 24 h)		2.9	JIS K 2220 11
Copper plate corrosion (B method, 100℃, 24 h)		Accepted	JIS K 2220 9
Low-temperature torque: mN·m (-20°C)	Starting	43	JIS K 2220 18
	Rotational	24	
4-ball testing (welding load): N		3922	ASTM D2596
Service temperature range: ℃		-40 to 200	
Color		Tan	

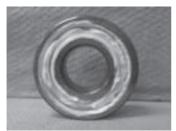
[Water Resistance]

 Leakage comparison with ordinary H1 grease by rotating a bearing containing grease mixed with 10 mass% of water

Test conditions

Item	Description	
Bearing	JIS B 1521 6204, Open type, Class 0, C3 clearance	
Water content	10% of the grease weight	
Rpm	600 min ⁻¹	
Test duration	60 min	

Test result







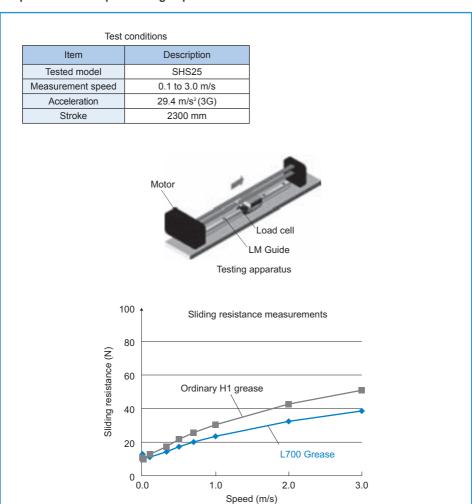
Ordinary H1 grease

Lubrication

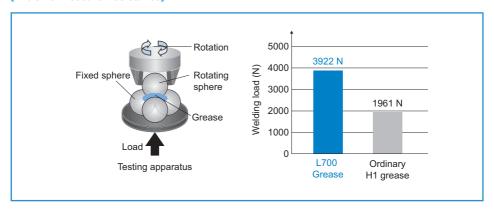
L700 Grease

[Low Sliding Resistance]

 Measurement of sliding resistance when an LM Guide is injected with grease and operated at low speed to high speed



[Extreme Pressure Resistance]



[Low-Temperature Characteristics]

