



SMOOTHER WORLD BETTER LIFE

Technical Date Sheet

TK2-7 Grease



Product Introduction

This product is formulated with high-temperature resistant premium base oil and heavy-duty compound additives, no solid particle content and no pipeline blockage risk.
It is a light yellow homogeneous grease with medium-hard consistency, outstanding anti-throw and anti-loss performance, excellent shear resistance and stable structural rigidity at high temperature without softening and deformation. Specially designed for FANUC, Niigata high-temperature heavy-duty full-electric injection molding machines and high-speed heavy-duty CNC machining centers under severe working conditions.

Examples of Application

1. FANUC Full-Electric Injection Molding Machine (Roboshot System)
 2. Niigata Full-Electric Injection Molding Machine (Servo NC System)
 3. FANUC High-Speed Heavy-Duty CNC Machining Center (0i-MF / 31i-B System)
 4. High-speed, high-temperature, heavy-load and high-vibration spindles, heavy-duty guide rails and high-load servo bearings.
- Temperature Range: -25℃ ~ 160℃, short-term peak up to 170℃.

Features and benefits

- Excellent high-temperature heavy-duty stability: No softening, grease throwing or loss under high temperature; complete grease structure under impact load.
- Superior shear stability: Resists thinning and disintegration under long-term continuous vibration and reciprocating motion, extending lubrication cycle.
- Anti-coking at high temperature: Excellent heat and oxidation resistance; less sludge and carbon deposition under long-term high temperature, protecting precision friction surfaces.
- Compatible with high-pressure lubrication system: Particle-free formula, no pipeline or distributor clogging for long-term high-pressure pump operation.
- Good anti-rust & material compatibility: Compatible with cast iron, carbon steel, copper alloy and aluminum alloy precision parts without corrosion.

TESTING ITEMS	TYPICAL DATA	TESTING STANDARDS
NLGI Grade	2	NLGI Classification Standard
Appearance	Light yellow homogeneous grease	Visual Inspection
Worked Penetration(25℃), 0.1mm	280	ASTM D217
Dropping Point, ℃	260	ASTM D2265
Kinematic Viscosity of Base Oil(40℃), mm²/s	128	ASTM D445
Cone Oil Separation(100℃,24h), %	1.5	ASTM D6184
Evaporation Loss(99℃,22h), %	1.4	ASTM D972
Water Spray Loss(38℃,1h), %	4.2	ASTM D2266
Copper Corrosion(100℃,24h)	Class 1b	ASTM D130
Four-ball Weld Load PD/N	2250	ASTM D2783

* 1.Filling Method: Suitable for 700cc bellows cartridge and high-pressure centralized lubrication system; dedicated for FANUC & Niigata heavy-duty full-electric machines and high-speed heavy-duty CNC. Not recommended for ordinary models due to slightly poor pumpability.
2.Model Matching: Only applicable for FANUC & Niigata equipment under high-temperature, high-speed, heavy-load and high-vibration conditions; other equipment prefer Grade 1#.
3.Compatibility Requirement: Strictly do not mix with other greases; thoroughly clean old grease before refilling.
4.Storage Condition: Store sealed in cool and dry place; avoid sunlight, moisture and high-temperature stacking.