

SMOOTHER WORLD BETTER LIFE

TEKAMAN RE Robot Reducer Grease

PRODUCT DESCRIPTION

This product is made from fully synthetic base oil, thickened with complex soap, and refined with high-efficiency additives such as antioxidants, anti-rust agents, extreme pressure agents and anti-friction agents.

APPLICATIONS

It is especially suitable for the lubrication and sealing of robot reducers, such as harmonic and RV reducers. The applicable temperature range during continuous operation is -40 to 120°C , and it can be used up to 150°C for a short period. The NLGI 0 and NLGI 00 are suitable for the lubrication and sealing of precision planetary reducers and RV reducers, while the NLGI 2 is suitable for the lubrication and sealing of harmonic reducers.

PERFORMANCE FEATURES

- Effectively prevent the robot from suddenly stopping at low temperatures.
- It greatly reduces the energy loss caused by joint friction during the robot's operation, extends the robot's service life, and prevents additional energy consumption.
- There is prevention and reduction of oil leakage.
- Reduce noise during operation and suppress the generation of abnormal sounds.
- It meets the pumping requirements of the centralized lubrication system and can fully satisfy the lubrication of the $2\text{ }\mu\text{m}$ oil passage clearance of the cycloidal pinwheel of the RV reducer.
- Compliant with regulatory requirements, energy-efficient and environmentally friendly, contributing to carbon neutrality.

TYPICAL DATA

TEST ITEM	NLGI 00	NLGI 0	NLGI 2	TEST METHOD
Appearance	Yellow uniform grease			Visual inspection
Worked Penetration, 0.1 mm	410	380	280	ASTM D217
Dropping Point, $^{\circ}\text{C}$	194	197	204	ASTM D566
Prolonged Worked Penetration (100,000 strokes), 0.1 mm	412	383	285	ASTM D217
Maximum Non-Seizure Load (PB), kgf	132	139	139	ASTM D2783
Weld Load (PD), kgf	250	250	315	ASTM D2783
Wear Scar Diameter (1200 rpm, 40 kgf, 60 min, 75°C), mm	0.42	0.42	0.43	ASTM D2266
Similar Viscosity (-40°C , 10s^{-1}), $\text{Pa} \cdot \text{s}$	1091	1439	1770	ASTM D1092

* Guidelines For Use:

Select the appropriate NLGI grade and quality level based on equipment specifications.
Prevent water ingress, moisture, and mechanical contamination during storage and transport.
Do not mix with other grease types or grades.
Dispose of used grease in an environmentally responsible manner.