Essence of Tribology

KYODO YUSHI

地球にやさしい

環境中で分解しやすいグリース
生分解度28 日で60%以上
（OECD 301 C 試験による）

Readily biodegradable grease
>60% degradability (28 days)
(OECD 301C test)

Excellent low noise property and wide operating temperature range…

MULTEMP SRL

Wide Temperature Bearing Grease

The temperature of bearings and other components of electric motors and auto electrical equipment can increase significantly, as they become smaller, lighter and higher performance. Grease intended for such lubrication points is required to offer not only high temperature performance, but also low noise characteristics, low-temperature properties and rust protection. MULTEMP SRL is wide-temperature long-life grease designed specifically for use under such harsh conditions, and has been widely accepted with a good track record.

MULTEMP SRL is an *Eco Mark product.Eco Mark Certification Number: 05110012

*Eco Mark: An eco-label certified by the Japan Environment Association

< Characteristics >

Low Noise Characteristics

Removal of impurities from main raw materials and use of special additives and base oil of appropriate viscosity, as well as specialized process in a dust-free factory enables quieter running of bearings.

High Temperature Performance Life

Several times longer performance life than other wide-temperature range greases available in the market. Usable in bearings at high temperature conditions for a long period and, under normal conditions, achieves significant extension of the interval of grease refilling or bearing replacement.

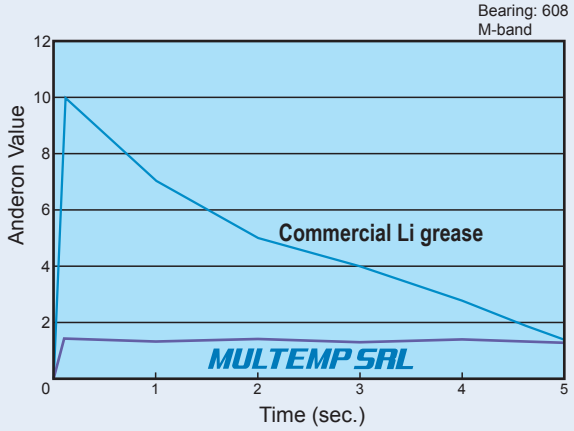
Low-Temperature Performance

The combination of special synthetic lubricating oils and the structure designed to minimize internal flow resistance extended the lower temperature limit to as low as -50ºC, eliminating concerns about low-temperature starting performance of precision machine and small-size motors.

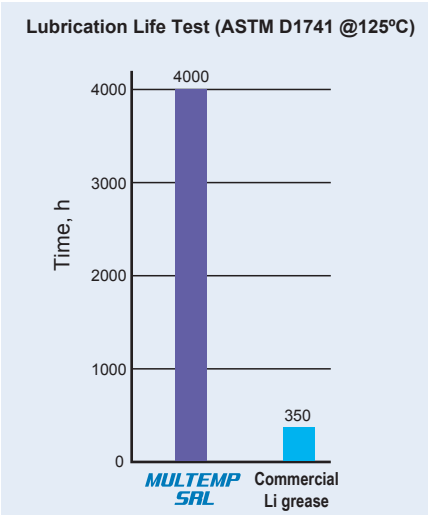
Anti-rust Properties

Enhanced anti-rust properties ensure protection not only from moisture but also from salt water and varnish, which often cause rust concerns for auto

Anderon Noise Test Result (initial ~ 5 sec.)



Lubrication Life Test (ASTM D1741 @125ºC)



Typical Property of Multemp SRL

Test and Condition			Multemp SRL	Test Method
Appearance			light brown, buttery	——
Thickener			lithium soap	——
Worked penetration			250	ASTM D217
Dropping point, ºC			192	ASTM D566
Copper strip corrosion	100℃, 24h		no colour change to black or green	ASTM D4048
Evaporation loss, mass%	99℃, 22h		0.30	ASTM D972
Oil separation, mass%	100℃, 24h		1.2	ASTM D6184-98 Mod.
Oxidation stability, kPa	99℃, 100h		20	ASTM D942
Foreign particles,number/cm^3	10μm以上		400	FTMS 791C-3005 Mod.
	25μm以上		100	
	75μm以上		0	
	125μm以上		0	
Worked stability			308	FTMS 791C-313
Water washout, mass%	38℃, 1h		1	ASTM D1264
Low-temperature torque, mN•m	−30℃	starting	79	ASTM D1478-63
		running	25	
	−40℃	starting	110	
		running	28	
Bearing corrosion	52℃, 48h		#1	ASTM D 1743-73
Bearing lubrication life, h	125℃		4000	ASTM D 1741

●The above values are typical properties and we cannot guarantee the applicability of this information in any individual situation. Information regarding the application and service temperature range or typical property values are provided as a guide in selecting the appropriate grease. It is recommended that the user makes its own assessment and determination of the safety and suitability of the product performance/properties for the intended purposes prior to use.●Material Safety Data Sheet (MSDS) of the product should be consulted prior to the use.●The information contained herein is subject to change without notice.