













Antirust Performance


(Ref. Data)

Antirust Performance Comparison Test

Salt water spray testing method conforms to JIS H8502.
Testing Sample: Flanged Linear Bushing Single Type

	EN 1.3505 Equiv.	EN 1.4125 Equiv.	Electroless Nickel Plating	LTBC Plating
Before Test				
72 hr				
168 hr				

LTBC Plating

 <p>Linear Bushings: LMUR12 Linear Shafts : RSFJ12</p>	<ul style="list-style-type: none"> LTBC Plating on linear bushings is 5µm of fluoropolymer layer chemically deposited as a black film, and it has a long-lasting rust prevention effect. Additionally, the coating is resistant to cracking from extreme and repeated bending. Low temperature black chrome plated shafts are suitable for places where rusting or reflection of light is undesirable. <p>(Note) No surface treatment is applied to I.D. surface of low temperature black chrome plated linear bushings.</p> <p>* Photograph shows the condition of Linear Bushing after Sliding Test (Sliding Test Conditions) 50km sliding test was conducted with a 412N load on the linear bushing. No performance degradation after the test.</p>
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Linear Bushing Models Applicable to LTBC Plating

Straight	Applicable I.D.	Page
Single LMUR	Ø3~Ø30	P.315,316
Double LMUWR	Ø5~Ø30	
Flanged Type	Applicable I.D.	Page
Single LHF□R	Ø6~Ø30	P.305
Double LHF□WR		P.306

* For details, refer to each page.

Grease Service

Service to apply greases shown below at the time of shipping.

Type	Product Name	Main Features
L Type	ET-100K (Made by Kyodo Yushi)	Superior heat resistance and oxidation stability. Also high adhesion and cohesion with limited splash or leakage.
G Type	LG2 (Made by NSK Ltd.)	Suitable for clean environment due to low particle generation grease. Also good anti-rusting characteristics.
H Type	FGL(Lubriplate®)	Suitable for food, beverage and pharmaceutical industries. (NSF H-1 Reg. NO.043534)

Products with Filled Grease Options

Applicable Products	Shaft Dia. dr	Unit Price (Price for Grease Filling Service)
P305~P335 Linear Bushing Related * Products below are excluded. * Linear bushings without seals * Linear Ball Bushings	3~50	



Ordering Example

Part Number

LMU12L (L Type Greased)

LMU12G (G Type Greased)

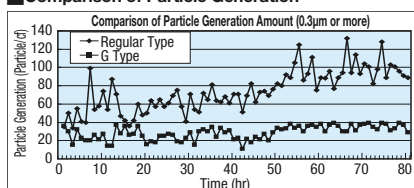
LMU12H (H Type Greased)

* To place an order, add L, G, or H after Part Number of Regular Type.

Grease Performance

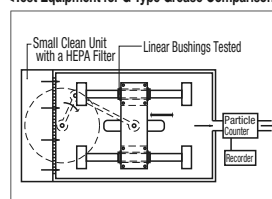
Item	Conditions	Unit	Measurement Method	L Type	G Type	H Type
Thickener	-	-	-	Aromatic Diurea	Lithium Type	Aluminum Complex Soap
Base Oil	-	-	-	Ether Synthetic Oil	Mineral Oil + Synthetic Hydrocarbon Oil	USP White Oil
Base Oil Kinetic Viscosity	40°C	mm²/s	JIS K2220 5.19	103	30	105
Viscosity	100°C	mm²/s	JIS K2220 5.3	12.8	-	11.5
Miscible Consistency	-	-	JIS K2220 5.3	280	207	310
Dropping Point	-	°C	JIS K2220 5.4	<260	200	238
Evaporation Amount	99°Cx22hr	wt%	-	0.15%	1.40%	0.27%(ASTMD-972)
Oil Separation	100°Cx24hr	wt%	JIS K2220 5.14	1.2%	0.8%	2.1%(ASTMD-1742)
Operating Temp.	In Air	°C	-	-40~200	-10~80	-12~170

Comparison of Particle Generation



* The data above are for reference only, and not guaranteed by the manufacturer.

<Test Equipment for G Type Grease Comparison>



<Testing Condition>

Linear Bushing Used

Liner Motion Speed

Stroke

Environment

Temperature

Humidity

Particle Counter

LHFS16 (Regular Type)

LHFS16G (G Type)

20m/min

100mm

Inside Clean Booth (Class100)

22.5°C±2°C

50wt%

Made by Rion Co. Ltd.

KC03A1