

Quick reference chart of industrial grease

Product number	LM-45	LM-46	LM-47	LM-47A*	LM-48S*	LM-48L*
Product name	Admac gear	B grease	L grease	L grease low temperature	Low temp grease	Low temp grease
Type	urea	benton	lithium	lithium	silicon	lithium
Color	Grayish black	grayish black	grayish black	grayish black	grayish black	light brown
NLGI No.	2	1*,2	0,1,2,3	0	2	1, 2
OT	-20 ~ 200°C	-15 ~ 230°C	-15 ~ 180°C	-40 ~ 180°C	-60 ~ 200°C	-40 ~ 130°C
Withstand pressure load	○	○	○	○	○	△
Water resistance	◎	△	△	△	△	△
Heat resistance	◎	◎	○	○	◎	△
Cold resistance	△	△	△	○	◎	○
Use	for gear, high adhesion	for heat resistance	for high-class all purpose		for extreme cold resistance	no MoS ₂

Product number	LM-49	LM-150	LM-160*	LM-190*	LM-191*	LM-3202*, 3302,3302F
Product name	H.D compound	MP grease	U grease	grease for rust prevention	bio grease	white grease
Type	lithium	lithium	urea	compound	lithium	lithium
Color	grayish black	grayish black	grayish black	light brown	light yellow	white
NLGI No.	2	1, 2	2	1, 2	2	2
OT	-20 ~ 180°C	-20 ~ 150°C	20 ~ 200°C	-20 ~ 150°C	-50 ~ 130°C	-40 ~ 150°C
Withstand pressure load	◎	○	○	◎	△	○
Water resistance	△	△	◎	◎	○	○
Heat resistance	○	△	◎	△	◎	△
Cold resistance	△	△	△	△	△	◎
Use	for high load resistance	universal	for high-class all purpose	for rust prevention no MoS ₂	biodegradation no MoS ₂	for plastic no MoS ₂

※ These products are made by order. Please contact us for delivery time and quantity (lot size).

- 1) PV value is a burn-in indicator for sliding bearings, calculated by multiplying contact pressure (P) by slipping velocity (V)>
- 2) S I unit conversion $1\text{MPa} \cdot \text{m}/\text{sec} = 10.2\text{kg}/\text{cm}^2 \cdot \text{m}/\text{sec}$ $1\text{MPa} = 10.2\text{kg}/\text{cm}^2$
- 2) NLGI (=National Lubricant Grease Institute) classification

NLGI No.	00	0	1	2	3
Mixing NLGI range (@25°C, 60W)	400 ~ 430	355 ~ 385	310 ~ 340	265 ~ 295	220 ~ 250
Hardness	Semi fluid	Extremely soft	Soft	Regular	Rather hard

● Grease



LM-45 Admac Gear

Grease composed of urea grease with viscosity and adhesion, mixed with MoS₂. Has excellent water, heat and wear resistant properties and used for gear

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No. 2	-	120	0.16	Large open gear. Sliding parts of industrial machines which require adhesion, water/heat/wear resistance.	16kg / pail can



LM-46 B Grease

Grease composed of Benton grease mixed with MoS₂. Available to be used in wide temperature range (-15°C ~ 230°C)

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No.1 [*] , 2	14	152	0.15	1. High-temperature valve 2. Sliding surfaces and bearings of drying furnace, etc. 3. Bolt tightening of hot parts such as turbines, etc.	2.5kg / 6pail box [*] 16kg / pail can

^{*} For NLGI No. 1 and 2.5kg/6 can box, please contact us for the delivery time and quantity (lot size).



LM-47 L Grease

All-purpose grease composed of lithium grease mixed with MoS₂. Has better abrasion resistance than general lithium and has superiority in extreme pressure property.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No.0,1,2,3	14	147	0.15	1. Bearings and sliding surfaces of electric motors, blowers conduction machines, etc. 2. Equipment machines such as conveyors, etc. 3. Working machines, vibratory machines, etc.	2.5kg / 6can box 16kg / pail can



LM-47A^{*} L Grease for Low Temperature

Grease using synthetic oil partially as a base oil and available to be used as low temperature grade of LM-47.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No.0	14	147	0.15	Same as above in cold districts and for low temperature.	2.5kg / 6can box 16kg / pail can

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LM-48S^{*} Low Temp Grease (Cold Resistance Grease)

Grease for ultra cold temperature composed of silicon oil base grease mixed with MoS₂.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No.2	13	118	0.15	1. Gear bearing of vending machines, robots, etc. in cold districts 2. Bearings of conveyors in freezer 3. Sliding surfaces and bearings of airplanes and gauges for cold districts	2.5kg / 6can box 16kg / pail can

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LM-48L^{*} Low Temp Grease (Low Temperature Grease) Not include solid lubricant agents

Grease based on high-purity refined mineral oil for low temperature without MoS₂.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient(μ)	Major use	Package size
No.1,2	-	-	-	Various bearings and lubricated places of sliding surfaces operated under the condition of low temperature. Especially this is proven all-purpose grease for auto bodies.	2.5kg / 6can box 16kg / pail can

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LM-49 H.D Compound (Grease for High-Load)

High-load grease composed of lithium grease mixed with MoS₂ in high concentration. Have an effect on impact load and fretting corrosion.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.2	26	294	0.08	1. Center turbines under impact load of railway vehicles. 2. Gears of conveyors and press machines. 3. Pins and pushes of rotary parts and sliding parts.	2.5kg / 6can box 16kg / pail can



LM-150 MP Grease (Multi-Purpose Grease)

Grease composed of lithium grease mixed with MoS₂. This is lithium-type general-purpose grease, available to be used in places needed for lubrication.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.1,2	13	147	0.16	Bearing sliding parts for various machines	16kg / pail can



LM-160* U Grease (High-Class Multi-Purpose Grease)

Grease composed of urea grease mixed with MoS₂. Has high dropping point and little amount of evaporation in the high temperature. Has good water resistant property and little softening outflow.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.2	20	196	0.15	1. Bearings of hot-air blowers 2. Bearings of continuous casters 3. Bearings of wet paper manufacturing machines	2.5kg / 6can box 16kg / pail can

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LM-190* Rust Prevention Grease

Not include solid lubricant agents

Mineral grease using special composite soap as increase consistency agent. Has superiority in rusting control property, extreme-pressure property, mechanical stability, water-resisting property, etc.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.1,2	-	245	0.15	1. Construction machines such as booms of large cranes 2. Forklifts, farm machines, automobiles, etc.	2.5kg / 6can box 16kg / pail can

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LM-191* Bio Grease

Not include solid lubricant agents

Environmental-friendly biodegradable grease composed of urea grease using synthetic oil as base oil.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.2	-	140	0.15	1. Automobiles, motorcycles, bicycles 2. Golf carts, farm machines, outboard motors, etc.	400g cartridge / 20bottle box 2.5kg / 6can box 16kg / pail can



LM-3202,3302,3302F* White Color Grease

Not include solid lubricant agents

White color for plastic using synthetic oil as base oil. No silicon oil is used. Available to use places near electric contacts.

NLGI	PV value (MPa·m/sec)	Pressure resistance load (MPa)	Friction coefficient (μ)	Major use	Package size
No.2	-	-	-	1. Plastic gear parts of bicycles 2. Mechanic parts of PCs, printers, etc. 3. Camera zooms and shutters, etc.	500g polycontainer / 6can box 2.5kg / 6can box 16kg / pail can

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