



Existing Grease  
G Series

Grease for clean environment  
CG Series

Grease for vacuum  
VG Series

## CG Series (Numbering) LFD-UU-CG add "CG" to the last of model number

- **Long Life Lubricant:** We selected synthetic oil that is less deteriorate and is less separation. And this grease has about 10 times as the life of general Li-soap based grease by additions.
- **High Rust Proof:** This grease is superior with bearing rust prevention test, humidity test and water co-existence test. Hence this grease prevent every bearing to be rusted.
- **Low noise level:** In the noise test, we can get low value by a special manufacturing method. And the noise is not various and is low level in low frequency area.
- **Superiority at high temperature property:** Comparing this grease to usual Li based grease, this is superior at oil separation, evaporation and oxidation stability in high temperature. Then the lubricant life is long in high temperature.
- **Superiority at low temperature property:** The base oil is superior at low temperature, then torque is very small in low temperature, you could use this in -40°C.

	Condition	Nature
Thickener Type		Lithium Based Soap
Base Oil		Ester Synthetic Oil
Density (kg/l)		0.97
Penetration	25°C	231
Dropping Point (°C)		198
Oil Separation (%)	100°C×24h	1.4
Evaporation (%)	99°C×22h	0.42
Copper Corrosion	100°C×24h	Pass
Oxidation Stability (MPa)	99°C×100h	0.02
Water Washout (%)	79°C×1h	2.5
Low Temperature Torque (N·cm)	Starting (-20°C)	7.4
	Running (-20°C)	3.2
Roll Stability	Room Temperature×4h	298
Bearing Life (hr)	Fed 150°C	2180
Rust Prevention	52°C×48h	1
Applicable Temperature (°C)		-40 ~ 150

# VG Series

(Numbering) LFD—UU—VG add “VG” to the last of model number

The base oil is synthetic oil par fluoro ether, and thickener is fluoro resin. This is superior at low temperature, extreme pressure, chemical-proof and low volatilization.

This is not mixed with organic solvents, oils and fats, therefore this grease don't influence any rubbers and plastics. Then this is superior at electric isolation.

○Wide applicable temperature range, Superiority to low temperature, Less various change of stiffness by temperature

○Superior to oxidation stability    ○Superior to extreme pressure    ○Superior to chemical-proof

○No influence over rubbers and plastics    ○Superior to electric isolation    ○Low evaporation, low volatilization

○Mixable to only high fluorination organic solvents and fluorination oils, but not to other organic solvents and oils

○Suits to environment required extreme cleanliness

	Condition	Nature
Thickener Type		Fluoro Resin
Base Oil		PFE
Density (kg/l)	25°C	1.95
Penetration	25°C	280
Oil Separation (%)	100°C×24h	3.0
	200°C×24h	11.0
Evaporation (%)	99°C×22h	0.0
Four-Ball Wear-Test (MPa)	Room Temperature 200rpm	1.15
Four-Ball Extreme-Pressure Weld Point (N)	Room Temperature 1770rpm	over 5000
Oxidation Stability (MPa)	99°C×100h	0.0
Low Temperature Torque (N·cm)	Starting (-40°C)	4.5
	Running (-40°C)	2.0
Applicable Temperature (°C)		-65 ~ 200

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