



As Vario Engineering, we provide technical support and impartial guidance for our customers with our expert team of engineers.

LUBRICATION

Grease Partner



Customized for your application
Customized solutions



www.variogrease.com



Our company is aware that producing new and technological products and finding solutions to customer and sector problems is an indispensable element of competition and branding.



Let Us Produce...

Vario Engineering is one of the most specialized grease manufacturers with **technical innovations**, superior quality and tailor-made products. Our range of specialty greases are manufactured and delivered to you to outperform even in the most demanding conditions where **conventional lubricants** fail to provide adequate lubrication.

continuous **partner support**

Customized for your application
Customized solutions



Special Technology To Help Your Businesses

Our state-of-the-art production facility, R&D Center and laboratory in Turkey's fastest growing Organized Industrial Zone has the capacity to develop and produce **the most advanced technology greases.**

continuous **partner support**



VARIO**BXS 20**

High Speed Grease

High Performance It Has High Chemical Stability.

It is a high-performance barium complex grease formulated with a blend of ester base oils, synthetic hydrocarbons (SHC), and mineral oils. The product offers excellent protection against wear and corrosion, while providing outstanding resistance to water, aggressive chemical environments, and oxidation. The product is suitable for use in spindle beds, gear shafts, cable car bearings, tapered shaft bearings in milling machines, and needle roller bearings.

Operating Temperature	: -40/130
Soap Type	: Barium Complex
Base Oil	: Ester - SHC - Mineral
Base Oil Viscosity	: 18
NLGI	: 2

NLGI

2

Operating Temperature

-40

+130

°C

Grease Type

BX

Base Oil

E/SHC/M

BOV (40° c)

18



Physical

LOAD

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High



Chemical

WATER

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

BX 460

High Pressure Grease

High Performance It Has High Thermal Stability.

It consists of mineral base oils and barium complex soap, providing excellent protection against wear, corrosion, and high loads. It offers superior resistance to oxidation caused by water and, in particular, aggressive chemical environments. Designed for demanding applications, it is widely used in water pumps, wheel bearings, motors, and wet processing machinery in the textile sector, such as washing, mercerizing, and dyeing systems.

Operating Temperature : -20/150

Soap Type : Barium Complex

Base Oil : Mineral

Base Oil Viscosity : 220/460

NLGI : 1-2

NLGI ▶ 1 | 2

Operating Temperature

-20

+150

°C

Grease Type

BX

Base Oil

M

BOV (40° c)

220/460



Physical

LOAD

Low

Med

High



VIBRATION

V



SPEED

Low

Med

High



Chemical

WATER

Cold

Hot



CHEMIE

Salt

Vapour

Alcaline

Acid



Let Us Produce...

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VARIO

CSX EXTRA SERIES

High Performance Calcium Sulfonate Complex Grease

It is a mineral oil-based grease thickened with calcium sulfonate complex soap, offering excellent pumpability and superior lubrication performance even at high speeds. The product provides outstanding water resistance, load-carrying capacity, thermal stability, and corrosion protection. It is successfully used in marine applications, iron and steel industries, and all heavy-duty processes where water exposure is present. The CSX EXTRA series delivers superior performance even in high-speed applications where polyurea or lithium complex greases are typically required.

Operating Temperature	: -30/180
Soap Type	: CSX
Base Oil	: Mineral
Base Oil Viscosity	: 100/220/460
NLGI	: 1-1,5-2

NLGI

▶ 1 | 1,5 | 2

Operating Temperature

-30
+180
°C

Grease Type

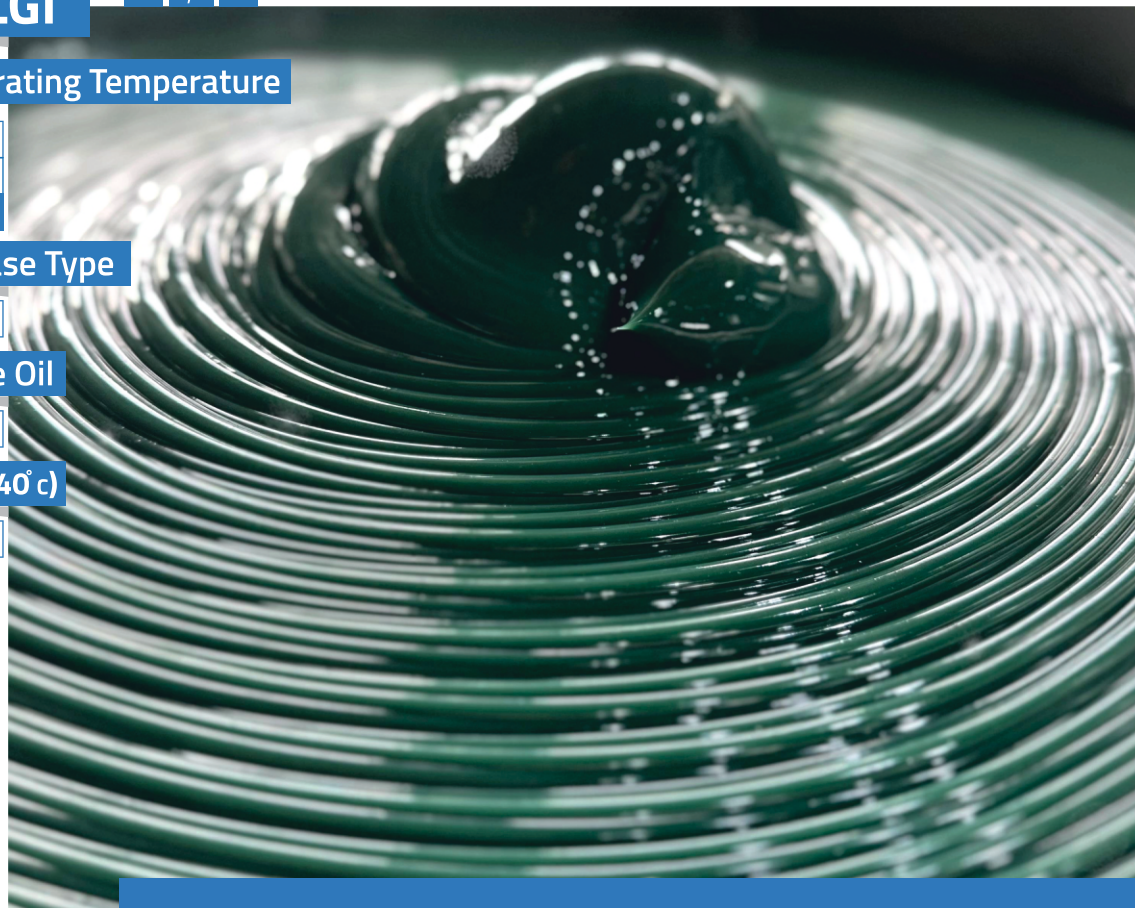
CSX

Base Oil

M

BOV (40° c)

100/220/460



Physical

LOAD

Low Med High
○ ○ ●

VIBRATION

V



SPEED

Low Med High
● ● ○

Chemical

WATER

Cold Hot
● ●

CHEMIE

Salt Vapour Alkaline Acid
● ● ● ●

Let Us Produce...

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VARIO

CSX 460C SERIES

High Performance Calcium Sulfonate Complex Grease

It is a calcium sulfonate complex thickened lubricating grease based on mineral oil. It offers excellent sealing properties, high resistance to washout, outstanding mechanical stability, and exceptional durability under extreme pressures. By extending bearing service life, they reduce maintenance requirements and lower overall operating costs through their long-lasting durability. It is an approved high-performance grease for heavy industries such as steel production, mining, cement, and paper manufacturing.

Operating Temperature : -10/180
Soap Type : CSX
Base Oil : Mineral
Base Oil Viscosity : 460
NLGI : 1-1,5-2

NLGI

▶ 1 | 1,5 | 2

Operating Temperature

-10

+180

°C

Grease Type

CSX

Base Oil

M

BOV (40° c)

460



Physical

LOAD

Low

Med

High



VIBRATION

V



SPEED

Low

Med

High



Chemical

WATER

Cold

Hot



CHEMIE

Salt

Vapour

Alcaline

Acid



Let Us Produce...

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VARIO

CSX 460CM

High Performance It Has High Thermal Stability.

Although it provides excellent load-carrying capacity at ambient temperatures, its performance is further enhanced by the solid (dry) lubricants it contains. Thanks to its soap-based thickener, it offers superior protection against rust and wear, even in seawater environments. Its high water resistance ensures effective lubrication without losing its properties, even in the presence of water contamination. The grease maintains its performance under extreme conditions with excellent thermal stability. It is particularly suitable for systems operating under shock loads and high temperatures. Additionally, it allows for easy application in assembly and disassembly processes.

Operating Temperature : -10/200
Soap Type : CSX
Base Oil : Mineral
Base Oil Viscosity : 460
NLGI : 1-1,5-2

NLGI

1 1,5 2

Operating Temperature

-20

+200

°C

Grease Type

CSX

Base Oil

M

BOV (40°C)

460



Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

CSX 460 B

High Performance Calcium Sulfonate Complex Grease

In heavy industries such as mining, milling, chemicals, and paper production, VARIO grease products reduce metal-to-metal contact in industrial machinery by minimizing friction, vibration, and surface collisions. This effectively prevents costly downtime and mitigates wear, while also reducing the need for frequent bearing and component replacements. Thanks to its polymer content, it maintains performance even under high-temperature conditions without degradation. It is a proven and approved solution, especially for demanding applications such as crushers and kilns in the mining industry.

Operating Temperature : -10/190
Soap Type : CSX
Base Oil : Mineral
Base Oil Viscosity : 460
NLGI : 1-1,5-2

NLGI

▶ 1 | 1,5 | 2

Operating Temperature

-20

+190

°C

Grease Type

CSX

Base Oil

M

BOV (40° c)

460



Physical

LOAD

Low

Med

High

**VIBRATION**

V

**SPEED**

Low

Med

High



Chemical

WATER

Cold

Hot

**CHEMIE**

Salt

Vapour

Alcaline

Acid



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VARIO**CSX CS**

High Performance Synthetic Calcium Sulfonate Complex Grease

It is a high-performance calcium sulfonate complex grease formulated with synthetic base oils, providing excellent resistance to high pressure, high temperatures, and water. Its special formulation and synthetic base oils ensure superior performance across a wide temperature range, both in high and low conditions. Thanks to its outstanding water resistance, it maintains effective lubrication even in the presence of water ingress, without losing its structural integrity. Additionally, it offers exceptional protection against rust and corrosion, ensuring long-lasting reliability in demanding environments.

Operating Temperature : -30/200
 Soap Type : CSX
 Base Oil : Synthetic
 Base Oil Viscosity : 100-220-460
 NLGI : 1-2

NLGI

▶ 1 | 2

Operating Temperature

-30

+200

°C

Grease Type

CSX

Base Oil

SHC

BOV (40°C)

100-220-460



Physical

LOAD

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High



Chemical

WATER

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

CSX 130 TE

High Performance Premium Multi-purpose Calcium Sulphonate Grease For Extreme And High Temperatures

It is a new-generation calcium sulfonate complex grease, offering excellent performance under high pressures and speeds. It provides outstanding resistance in water and humid environments, along with superior protection against rust and corrosion. Thanks to its fibrous structure, it ensures reliable lubrication in demanding conditions. By extending bearing life and reducing maintenance needs, it helps lower overall operating costs through its long service life. Specifically designed for the harsh conditions of the mining industry and quarries, it performs exceptionally well in applications exposed to high loads, abrasive minerals, and low-speed operations.

Operating Temperature	: -30/200
Soap Type	: CSX
Base Oil	: Mineral
Base Oil Viscosity	: 130-220
NLGI	: 1-2

NLGI

1 2

Operating Temperature

-30
+200
°C

Grease Type

CSX

Base Oil

M

BOV (40° c)

130-220



Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



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VARIO

L SERIES

High performance General Purpose Lithium Grease

These greases are formulated with mineral base oils and lithium soap, incorporating special additive packages to enhance performance. In addition to general lubrication, the unique additives provide excellent protection against pressure, shock loads, wear, corrosion, and partial water exposure. By extending the life of bearings, they help reduce maintenance costs and lower overall operating expenses with their long service life.

Operating Temperature : -25/125
Soap Type : Li
Base Oil : Mineral
Base Oil Viscosity : 100-220
NLGI : 000-00-0-1-2-3

NLGI

▶ 000 00 0 1 2 3

Operating Temperature

-20

+125

°C

Grease Type

Li

Base Oil

M

BOV (40°C)

100-220



Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

L-EP SERIES

High performance General Purpose Lithium EP Grease

This is a lithium-thickened lubricating grease formulated with high-quality mineral base oil. It is reinforced with antioxidants, rust and corrosion inhibitors, extreme-pressure (EP) and anti-wear (AW) additives, as well as water resistance and mechanical stability enhancers. The grease offers excellent load-carrying capacity due to its special EP additives, allowing it to withstand heavy and shock loads without lubricant film failure. Its specially selected base oils provide outstanding oxidation stability, ensuring the grease maintains its consistency during storage and resists hardening or deposit formation at high operating temperatures.

Operating Temperature : -25/125
Soap Type : Li
Base Oil : Mineral
Base Oil Viscosity : 100-220
NLGI : 000-00-0-1-2-3

NLGI

000 00 0 1 2 3

Operating Temperature

-20

+125

°C

Grease Type

Li

Base Oil

M

BOV (40 °C)

100-220



Physical

LOAD

Low

Med

High

**VIBRATION**

V

**SPEED**

Low

Med

High



Chemical

WATER

Cold

Hot

**CHEMIE**

Salt

Vapour

Alcaline

Acid



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VARIO

LM SERIES

High performance It Has High Thermal Stability.

It is a lithium soap-thickened grease, reinforced with solid lubricants such as graphite and molybdenum disulfide. The formulation provides excellent resistance to water, oxidation, corrosion, and boundary lubrication conditions. Engineered for heavy-duty equipment, it offers superior load-carrying capacity and effectively responds to operational demands under vibration and shock loads. Its robust structure ensures reliable performance in applications subject to high loads and dynamic stresses.

Operating Temperature : -25/155
Soap Type : Li
Base Oil : Mineral
Base Oil Viscosity : 320-460
NLGI : 1-2

NLGI

1 2

Operating Temperature

-25

+155

°C

Grease Type

Li

Base Oil

M

BOV (40° c)

320/460



Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



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VARIO

LX SERIES

High Performance High Pressure Lithium Complex Grease

This is a high-performance, heavy-duty grease formulated with premium mineral base oil and lithium complex soap technology. It is designed to operate reliably at temperatures up to 200°C, providing superior protection for bearings exposed to water, steam, and chemical environments. Specifically developed for industrial applications under severe conditions, it is ideal for heavy-duty and slow-speed bearings, plain bearings, and lubrication points in iron and steel production, as well as for off-road construction and agricultural machinery operating under extreme loads and harsh working conditions.

Operating Temperature : -20/180
 Soap Type : LX
 Base Oil : Mineral
 Base Oil Viscosity : 220-320-460
 NLGI : 1-2-3

NLGI

1 2 3

Operating Temperature

-20

+180

°C

Grease Type

LX

Base Oil

M

BOV (40°C)

220-320-460



Physical

LOAD

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High



Chemical

WATER

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



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LXM SERIES

High Performance High Pressure and High Temperature Lithium Complex Grease

This is a heavy-duty grease formulated with lithium complex soap and high-performance solid lubricants, providing excellent resistance to vibration and extreme working conditions. By extending bearing life, it helps reduce maintenance frequency and overall operating costs thanks to its long service life. It is suitable for use in all applications where lithium complex greases are typically used, particularly in the iron and steel industry, as well as the automotive supply industry.

Operating Temperature : -20/180
 Soap Type : LX
 Base Oil : Mineral
 Base Oil Viscosity : 220-320-460
 NLGI : 1-1,5-2

NLGI

▶ 1 1,5 2

Operating Temperature

-20

+180

°C

Grease Type

LX

Base Oil

M

BOV (40°c)

220-320-460



Physical

LOAD

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High



Chemical

WATER

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



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VARIO

LXS SERIES

High Performance Synthetic Lithium Complex Grease

It is a premium-quality, high-performance synthetic grease formulated with synthetic hydrocarbon oil (SHC) and thickened with a lithium complex soap. The product offers excellent pumpability and delivers superior performance in high-speed bearing applications.

Operating Temperature : -40/180
Soap Type : LX
Base Oil : Synthetic
Base Oil Viscosity : 32-100-220-320-460
NLGI : 1-2-3

NLGI

▶ 1 | 2 | 3

Operating Temperature

-40

+180

°C

Grease Type

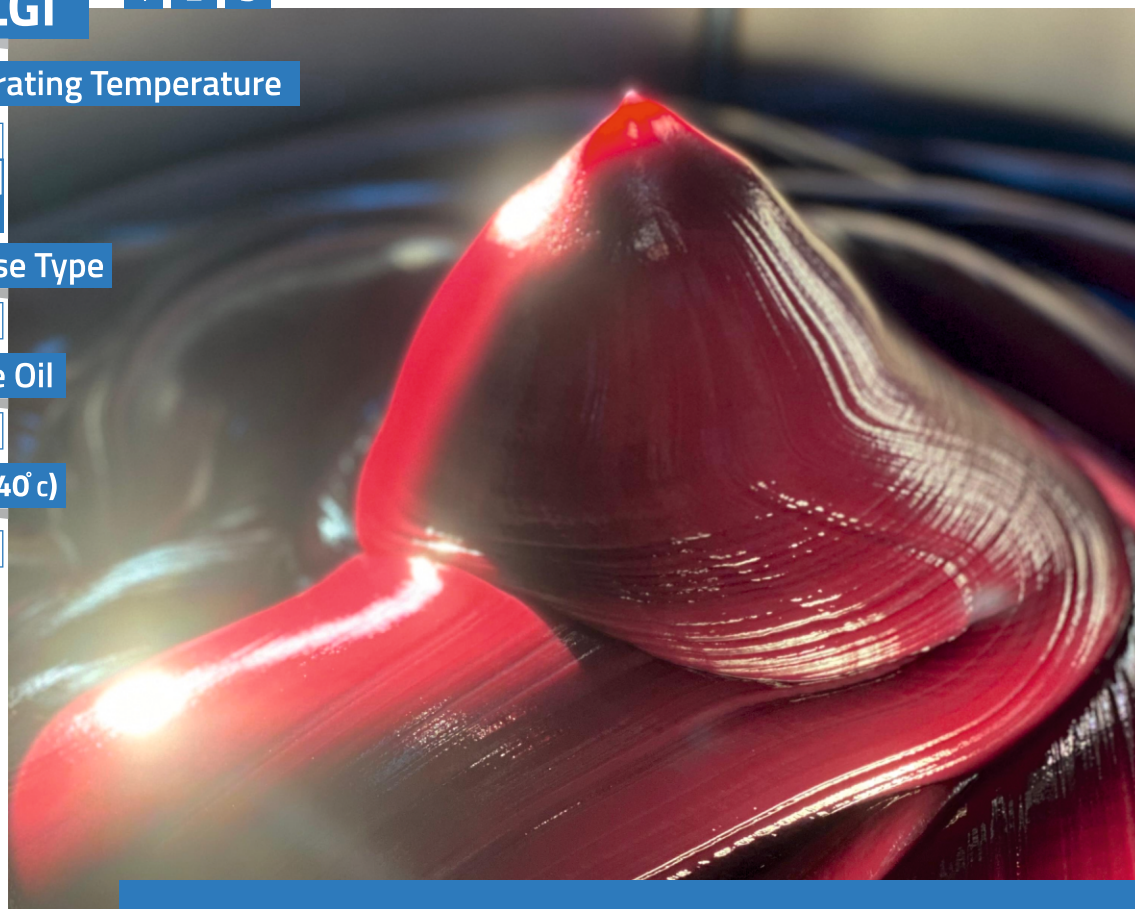
LX

Base Oil

SHC

BOV (40° c)

32-100-220-
320-460



Physical

LOAD

Low

Med

High



VIBRATION

V



SPEED

Low

Med

High



Chemical

WATER

Cold

Hot



CHEMIE

Salt

Vapour

Alcaline

Acid



Let Us Produce...

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VARIO

NS SERIES

High Performance Bentonite Based Grease For Industrial Lubrication

These are mineral oil-based, soap-free greases that deliver superior performance in high-temperature applications across industrial and automotive sectors. Unlike conventional soap-thickened greases, they do not melt at elevated temperatures. It has outstanding pumpability. Formulated with advanced thickeners and specially engineered additive packages, these greases ensure reliable lubrication at medium and high speeds, providing excellent thermal stability, wear protection, and long service life under demanding operating conditions

Operating Temperature : -30/170
Soap Type : Non Soap
Base Oil : Mineral
Base Oil Viscosity : 100-220-460
NLGI : 1-2-3

NLGI

▶ 1 2 3

Operating Temperature

-30

+170

°C

Grease Type

BENTONITE

Base Oil

M

BOV (40°c)

100-220-460



Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



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VARIO

PU SERIES

High performance. It Has High Thermal Stability.

VARIO PU 460 Series are long-life, high-performance greases thickened with polyurea, designed for use in demanding industrial applications. They offer a wide operating temperature range and are particularly suitable for rolling bearing lubrication. With excellent mechanical stability, these greases maintain their structure and performance even under sudden load changes, providing outstanding load-carrying capacity. The specially formulated additive package ensures superior protection against wear, rust, and corrosion, even in harsh environments.

Operating Temperature : -15/200
 Soap Type : Polyurea
 Base Oil : Mineral
 Base Oil Viscosity : 100-220-460
 NLGI : 1-2

NLGI

▶ 1 | 2

Operating Temperature

-15

+200

°C

Grease Type

PU

Base Oil

M

BOV (40° c)

100-220-460



Physical

LOAD

Low

Med

High

**VIBRATION**

V

**SPEED**

Low

Med

High



Chemical

WATER

Cold

Hot

**CHEMIE**

Salt

Vapour

Alcaline Acid



Let Us Produce...

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VARIO

PU-S SERIES

High performance It Has High Thermal Stability.

These are high-performance greases formulated with polyurea thickeners and ester-oil, synthetic hydrocarbon base oils (SHC), designed to provide long-lasting lubrication under demanding conditions. Thanks to their excellent mechanical stability, they maintain their structure and performance over extended periods, even under sudden load variations. The formulation offers a very effective load-carrying capacity, ensuring reliable protection of components subjected to shock and dynamic stresses. These greases are especially suitable for use in electric motor bearings and rolling bearings operating at high speeds, where low-noise and smooth operation are critical.

Operating Temperature : -35/200
Soap Type : Polyurea
Base Oil : Synthetic
Base Oil Viscosity : 100-460
NLGI : 1-2

NLGI

▶ 1 | 2

Operating Temperature

-35

+200

°C

Grease Type

PU

Base Oil

E-SHC

BOV (40°C)

100-460

**Physical****LOAD**

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High

**Chemical****WATER**

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

OGL SERIES

High Performance Open Gear Greases

It is a grease formulated with mineral base oil, offering excellent sprayable adhesion properties. It contains an aluminum complex thickener combined with solid lubricant particles, providing exceptional resistance to high pressure, wear, and corrosion. By forming a thin lubricating film on gear surfaces, it prevents metal-to-metal contact and ensures long-lasting protection through the durability of the lubricant film. This product is ideal for use in the cement, lime, gypsum, mining, and chemical industries.

NLGI

▶ 00 | 0

Operating Temperature

-10

+180

°C

Grease Type

ALX

Base Oil

M

BOV (40° c)500/680
750/1000
1500/2500
3500

Operating Temperature : -10/180
 Soap Type : ALX
 Base Oil : Mineral
 Base Oil Viscosity : 500-680-750-1000-1500-2500-3500
 NLGI : 00-0

Physical

LOAD

Low Med High

**VIBRATION**

V

**SPEED**

Low Med High



Chemical

WATER

Cold Hot

**CHEMIE**

Salt Vapour Alkaline Acid



Let Us Produce...

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VARIO

OGL FLUID SERIES

High Performance Open Gear Lubricants

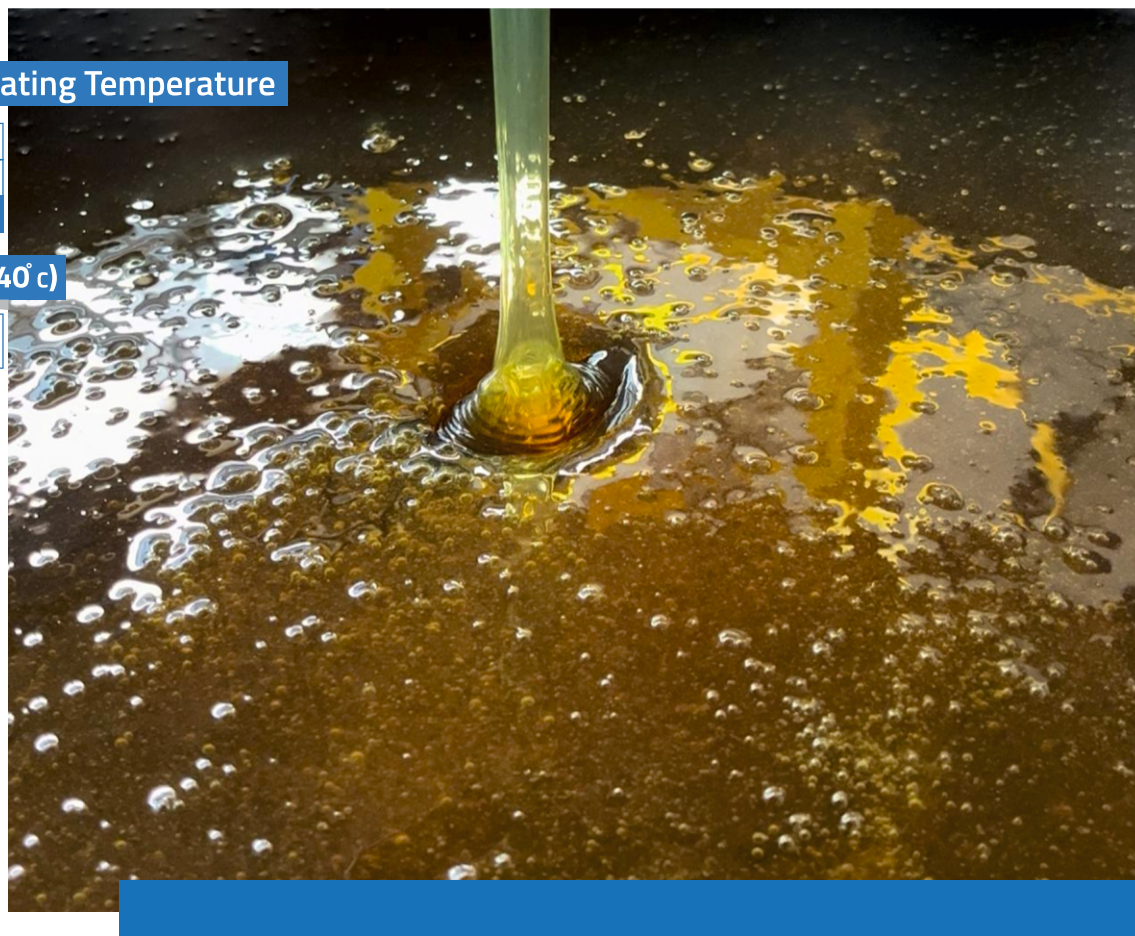
OGL Fluid Series are high-performance lubricant specifically developed for the lubrication of medium to large-sized girth gear drives. Formulated with a combination of synthetic hydrocarbons and mineral oil, it offers excellent adhesion properties, outstanding resistance to high pressure, and effective protection against wear. It is designed for use in open gear applications and is suitable for dip, circulation, or spray lubrication systems. Its formulation ensures reliable performance even at elevated operating temperatures, making it an ideal choice for demanding industrial environments.

Operating Temperature

+5
+160
°C

BOV (40° c)

3500/16500
20000



Operating Temperature : +5/160

Base Oil Viscosity : 3500/16500/20000

Physical

LOAD

Low Med High



VIBRATION

V



SPEED

Low Med High



Chemical

WATER

Cold Hot



CHEMIE

Salt Vapour Alkaline Acid



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**PRIVATE
LABEL**

*And all the other greases
you requested as well...*



SPECIAL GREASES

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