

XADO グリース 新世代シリーズ

- 新世代グリース技術・製品資料



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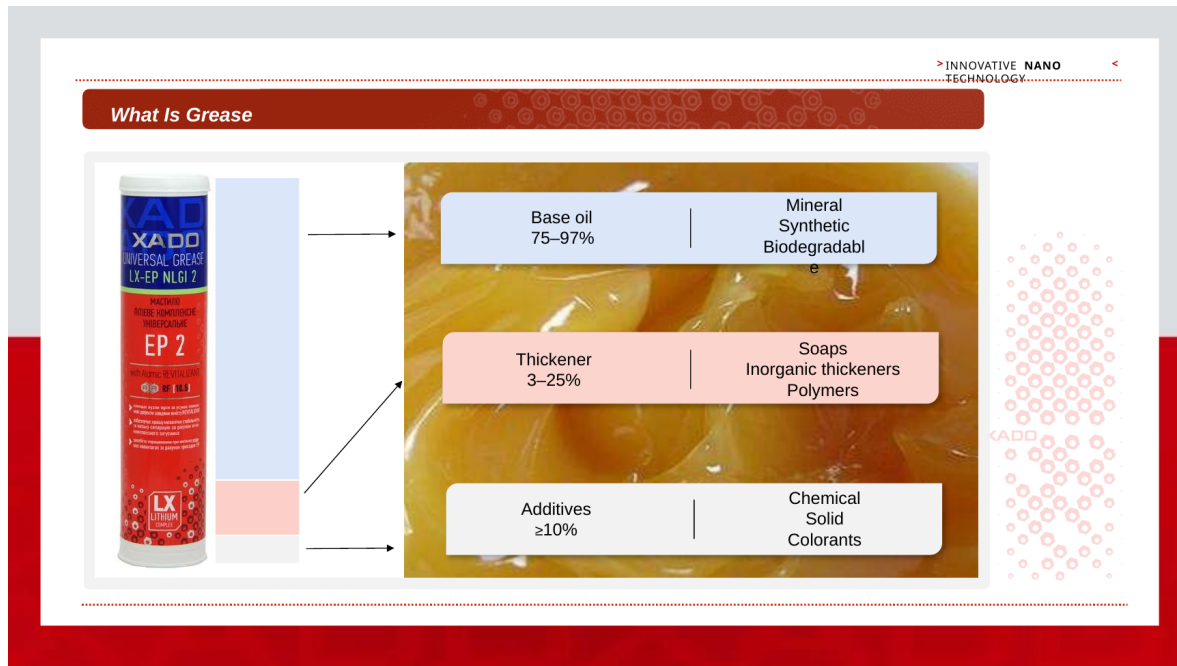
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グリースとは

- グリースは、基油・増ちょう剤・添加剤から構成される半固体潤滑剤です。
- 基油が潤滑を担い、増ちょう剤が稠度を維持し、添加剤が耐摩耗・防錆・極圧などの機能を付加します。



グリースの構成

- 基油：鉱物油、水素化分解油、PAO、合成油、PAG、シリコン、PFP E、生分解性油など。
- 増ちょう剤：グリースの網目構造を形成し、ちょう度・耐久性・耐離油性を左右します。
- 添加剤：使用条件に応じて耐摩耗、極圧、防錆、酸化安定性などの性能を付加します。

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TECHNOLOGY <

What Is Grease

Lubricating greases are lubricants that consist of a mineral or synthetic base oil with additives and are stabilized by means of special thickeners such as soaps or other substances.

- **Base oils:** mineral, hydrocracked, polyalphaolefin-based (PAOs), synthetic, polyglycol (PAG), silicone, polyphenyl ether, PFPE, biodegradable (soybean and rapeseed oil).
- **Thickeners** are added to a liquid to make it more viscous. In greases, thickeners are used to create a latticework that supports the consistency of the grease. The quality of the thickener determines how resistant a given grease is to degradation and starvation.
- **Additives** provide additional properties depending on the desired performance characteristics.

XADO

NLGI分類

- NLGIはグリースのちょう度を000～6の9段階で分類します。
- 000～00：半流動グリース。集中給脂や油の代替用途。
- 0～1：主に集中給脂システム。
- 2～3：主に軸受用。NLGI 2は乗用車用途で最も一般的。
- 4～6：非常に硬い特殊用途グリース。

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Classification According to NLGI

The National Lubricating Grease Institute (USA) specializes in the problems of grease manufacture and use in the USA. The basis for the division into categories is the consistency of the grease. The instrument used to determine this is called a penetrometer. There are nine categories of greases — from 000 to 6.

Categories 000–00 are semi-fluid greases used as an alternative to oils in mechanisms and centralized lubrication systems with small channel cross sections.

Categories 0–1 are used in main centralized lubrication systems (industrial equipment, trucks, etc.).

Categories 2–3 are used mainly for the lubrication of bearings (note that category 2 is the most common among greases for passenger cars).

Categories 4–6 include extremely thick greases that are rarely used.





NLGIちょう度表

- 000：流動状、00：半流動状、0～1：軟質、2：標準、3：硬め、4～6：非常に硬いグリース。
- 用途選定では装置構造、給脂方式、温度、速度、荷重を合わせて判断します。

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Classification According to NLGI

NLGI grade	Penetration number (0.1 mm)	Consistence	Scope of application
000	445-475	fluid	closed gears
00	400-430	semi-fluid	
0	355-385	soft	centralized lubrication systems
1	310-340	very soft	ball / roller bearings
2	265-295	"normal" grease	
3	220-250	firm	low-speed loaded bearings
4	175-205	very firm	
5	130-160	hard	special systems requiring grease sealing and anti-sintering

NLGI GRADE	ANALOGY	PENETRATION (80g)
000	KETCHUP	445-475
00	YOGURT	400-430
0	MUSTARD	355-385
1	TOMATO PASTE	310-340
2	PEANUT BUTTER	265-295
3	MARGARINE SPREAD	220-250
4	HARD ICE CREAM	175-205
5	FUDGE	130-160
6	CHEDDAR CHEESE	85-115



グリース互換性

- 異なる増ちょう剤系のグリースを混合する場合、互換性の確認が必要です。
- 表中 Yes = 互換性あり、No = 非互換、0 = 事前確認が必要、を意味します。
- 既存グリースが不明な場合は、可能な限り旧グリースを除去してから使用します。

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Grease Compatibility Table

	Lithium	Calcium	Lithium complex	Calcium complex	Calcium sulfonate	Aluminum complex	Bentonite	Polyurea
Lithium	Yes	Yes	Yes	No	Yes	No	0	0
Calcium	0	Yes	Yes	No	Yes	No	0	0
Lithium complex	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Calcium complex	No	No	Yes	Yes	Yes	0	0	Yes
Calcium sulfonate	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Aluminum complex	No	No	Yes	0	No	Yes	No	0
Bentonite	0	0	No	0	No	No	Yes	0
Polyurea	0	0	No	Yes	Yes	0	0	Yes

0 — requires verification

REVITALIZANT®

- REVITALIZATION®は、車両や機械の作動中に摩擦面を修復・強化するXADO独自技術です。
- 摩擦対の表面に多機能な傾斜構造セラミックメタルコーティングを形成します。
- XADOグリースにはREVITALIZANT®が配合され、摩擦部の保護と表面欠陥の改善を図ります。
- RF 10.5：標準荷重、RF 15.5：高荷重、RF 33.3：極端な高荷重用途

REVITALIZANT

REVITALIZATION® is XADO's technology for restoring and strengthening the friction surfaces of parts directly during the operation of vehicles and machines. REVITALIZATION® has become an integral part of maintenance of vehicles and mechanisms. In the process of REVITALIZATION®, a new multifunctional gradient ceramic-metal coating is formed on the surfaces of friction pairs. All of XADO greases contain REVITALIZANT®, which protects friction units and eliminates surface defects.

The XADO product line includes three **REVITALIZATION® Factor** values:

RF 10.5 — for parts with standard loads

RF 15.5 — for parts with increased loads

RF 33.3 — for parts with extreme loads that have a significant percentage of failures



XADO

Pictograms

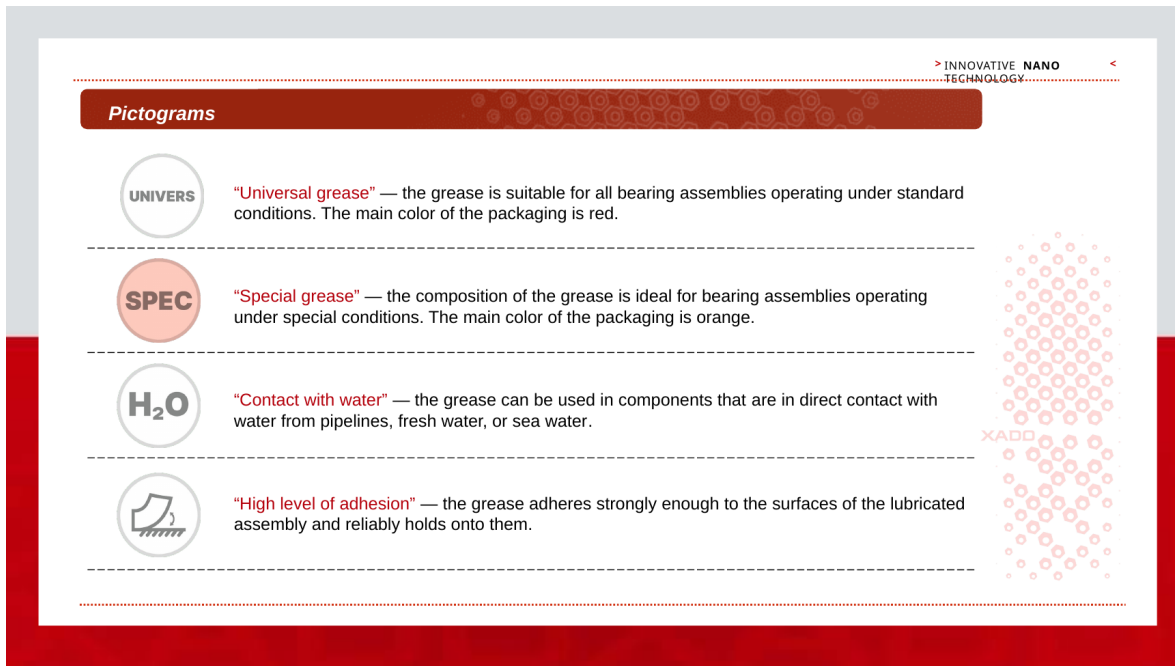
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ピクトグラム

- XADOグリースの特性は、製品ごとのピクトグラムで示されます。
- 次ページ以降で各記号の意味を説明します。

ピクトグラム 1

- ユニバーサル：標準条件の各種軸受に対応。
- スペシャル：特殊条件向けの専用配合。
- 耐水性：淡水・海水など水と直接接触する部位に対応。
- 高付着性：潤滑面に強く付着し保持される特性。



ピクトグラム 2

- 熱安定性：高温負荷で劣化しにくい。
- EP性能：衝撃荷重に対応する極圧添加剤を配合。
- 酸化安定性：長期間の酸化劣化を抑制。
- 耐振動性：高い振動負荷条件でも性能を維持。

INNOVATIVE NANO
TECHNOLOGY

Pictograms



"Thermal stability" — the grease is able to withstand high temperature loads and will not degrade under conditions of increased operating temperatures of the lubricated unit.



"EP properties" — EP (Extreme Pressure) grease containing special additives for working under shock load conditions.



"Oxidation stability" — the grease effectively resists oxidation over long periods.



"Vibration" — the grease performs well under high vibration loads.

XADD

ピクトグラム 3

- 耐腐食性：高い防錆・耐腐食性能。
- 機械的安定性：せん断後もグリース構造を速やかに回復。
- 高速回転：高速軸受に対応。
- 鉛不使用：重金属成分を抑えた環境配慮仕様。

> INNOVATIVE NANO
TECHNOLOGY <

Pictograms



"Corrosion resistance" — the grease has high anticorrosive properties.



"Mechanical stability" — the grease has thixotropic properties, i.e., the ability to restore its structure (latticework) almost immediately after leaving the zone of direct contact of the friction parts.



"High speeds" — the grease can be used for high-speed bearings.



"Does not contain lead" — the grease does not contain heavy-metal inclusions, which is important from an ecological point of view (compared to similar greases from other manufacturers).



XADO

GREASES <

新世代グリース

- 用途・温度・速度・荷重条件に合わせて選べる新世代XADOグリースライン。

Unigrease 2

- 長寿命のユニバーサルグリース。カルシウムコンプレックス増ちょう剤を採用。
- 水と接触する機器や集中給脂システムに適します。
- NLGI 2 / 使用温度 - 15 ~ +120 / RF 10.5
- 塩水接触用途の Defense Standard 91-034 (NATO Code G-460) 要求に対応。

Unigrease 2

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...TECHNOLOGY...

10.5

REVITAL
FACTOR

XADO Unigrease 2 is a long-life universal grease developed using a special package of functional additives and calcium thickener. It is intended for lubrication of technical units, especially those working in contact with water (in the food industry, etc.). Suitable for centralized lubrication systems due to its high pumpability.

DIN classification	KP2K-15
ISO classification	ISO-L-XBCIA 2
Thickener	Calcium complex
Color	Amber
Consistency grade	NLGI 2
Dropping point	>140 °C
Base oil viscosity at 40 °C	150 mm²/s
Four-ball weld load	1,600 N (160 kg)
Temperature range	-15...+120 °C
Corrosion preventive properties according to ASTM D1743	0-0-0/pass

* indicative color of lubricant

It is recommended as an analogue and complete substitute for imported lithium greases as well as a better alternative to such greases as Lithol, Solidol, etc.

Fully meets the requirements of the standard for greases approved for use in contact with salt water: Defense Standard 91-034: Grease, Sea Water Resisting NATO Code: G-460.

Li EP 2/3 NLGI 2

- 酸化防止、耐摩耗（AW）、極圧（EP）添加剤を配合したプレミアム汎用グリース。
- 高面圧の転がり・すべり軸受、ギアなどに推奨。
- NLGI 2/3 / 使用温度 - 20 ~ +130 / RF 10.5

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Li EP 2/3 NLGI

10.5
REVITAL
FACTOR

XADO
UNIVERSAL GREASE
LI EP 2/3

MAXIMUM RITING
VIRRECAPITALE
EP 2/3

LI LITHIUM

XADO
UNIVERSAL GREASE
LI EP 2/3

MAXIMUM RITING
VIRRECAPITALE
EP 2/3

LI LITHIUM

Used in friction units with high specific pressure. Recommended for lubrication of rolling and sliding bearings, gears, and other friction units requiring a high-quality grease.

UNIVERS

O₂

EP

Hand icon

vibration

Pb

Gear icon

DIN classification	KP2/3K-20
ISO classification	ISO-L-XB(F)CHB2/3
Thickener	Lithium
Color	Blue
Consistency grade	NLGI 2/3
Dropping point	>180 °C
Base oil viscosity at 40 °C	190 mm²/s
Four-ball weld load	2,800 N (280 kg)
Temperature range	-20...+130 °C



* indicative color of lubricant

XADO Li-EP 2/3 is a premium universal grease that contains a powerful complex of antioxidant, antiwear (AW), and extreme pressure (EP) additives, providing outstanding wear protection and increasing operating efficiency. It also contains a potent range of corrosion inhibitors to ensure the long life of your equipment.

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PRO MAX EP 2

- 高濃度REVITALIZANT®、リチウムコンプレックス、EP添加剤を配合。
- 強い摩耗を受ける車両・産業機械の軸受向け。
- NLGI 2 / 使用温度 - 30 ~ +150 / RF 33.3

> INNOVATIVE NANO TECHNOLOGY <

PRO MAX EP



33.3
REVITAL
FACTOR

A universal grease designed to lubricate bearings in vehicles and industrial equipment subject to heavy wear.

UNIVERS

EP









Pb

DIN classification	KP2N-30
ISO classification	ISO-L-XCDB 2
Thickener	Lithium complex
Color	Red
Consistency grade	NLGI 2
Dropping point	>260 °C
Base oil viscosity at 40 °C	210 mm²/s
Four-ball weld load	3,000 N (300 kg)
Temperature range	-30...+150 °C



* Indicative color of lubricant

XADO Pro-MAX EP 2 is a grease that offers maximum protection and incredible performance! It contains a high concentration of REVITALIZANT®, a powerful lithium complex, and EP additives to ensure reliable protection of your friction units. A nice bonus is the complete absence of lead in the grease, a testament to our concern for the environment.

LX EP 2

- リチウムコンプレックス、EP添加剤、REVITALIZANT®を配合した汎用グリース。
- 車両・産業機械の軸受に適し、確実な保護と効率を提供。
- NLGI 2 / 使用温度 - 30 ~ +150 / RF 10.5

> INNOVATIVE NANO
TECHNOLOGY <

LX EP NLGI

10.5
REVITAL
FACTOR



A universal solution for lubricating bearings in vehicles and industrial equipment. Designed specifically to meet the needs of modern transportation and manufacturing, this grease provides reliable protection and optimum efficiency for your equipment.

UNIVERS



EP







DIN classification	KP2N-30
ISO classification	ISO-L-XCDB 2
Thickener	Lithium complex
Color	Red
Consistency grade	NLGI 2
Dropping point	>260 °C
Base oil viscosity at 40 °C	210 mm²/s
Four-ball weld load	3,000 N (300 kg)
Temperature range	-30...+150 °C



* indicative color of lubricant

XADO LX-EP 2 is a grease containing a powerful lithium complex, EP additives, and REVITALIZANT®. It ensures the best performance of your equipment. The complete absence of lead in the grease helps protect human health and the environment.

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LX MO 2 / LX MoS2 NLGI 2

- 二硫化モリブデン配合の多機能コンプレックスグリース。
- 耐水洗性に優れ、滑りを改善して摩擦・摩耗を低減。
- アウターCVジョイント、チェーン、電動ブレーキなどに推奨。
- NLGI 2 / 使用温度 - 20 ~ +120 / RF 10.5

> INNOVATIVE NANO TECHNOLOGY.....
<

LX MoS₂ NLGI 2



10.5
REVTAL
FACTOR

Recommended for lubrication of hard-to-reach components. The reliability of this grease makes it essential for external CV joints, chains, and electric brakes where maximum efficiency and durability are required.

UNIVERS

H₂O



EP

Pb



DIN classification	KP2K-20
ISO classification	ISO-L-XBDEB 2
Thickener	Lithium complex
Color	Black
Consistency grade	NLGI 2
Dropping point	>190 °C
Base oil viscosity at 40 °C	150 mm ² /s
Four-ball weld load	4,000 N (400 kg)
Temperature range	-20...+120 °C (short-term up to +150 °C)



* indicative color of lubricant

XADO LX-MO 2 is a multifunctional complex grease characterized by long and stable performance under extreme loads. **Molybdenum disulfide** contained in the grease makes it highly resistant to water leaching, providing reliable protection for your equipment. It improves the sliding of contact surfaces, reduces their coefficient of friction and wear.

T-Joint PU 2

- インナーCVジョイント（トリポード）、軸受、オープンギア等に適した特殊ポリウレアグリース。
- 衝撃・振動条件でも強固な油膜を維持。
- NLGI 2 / 使用温度 - 20 ~ +150 / RF 15.5

XADO

T-Joint PU 2

> INNOVATIVE NANO TECHNOLOGY <

15.5
 REVITAL
 FACTOR

The ideal choice for most industrial sectors! The versatility and reliability of this grease ensure excellent performance in automotive, shipbuilding, mining, cement, metal, paper, and many other industries.



SPEC

High Speed

EP



H₂O





DIN classification	KP2N-20
ISO classification	ISO-L-XBFB 2
Thickener	Polyurea
Color	Green
Consistency grade	NLGI 2
Dropping point	>280 °C
Base oil viscosity at 40 °C	150 mm ² /s
Four-ball weld load	3,150 N (315 kg)
Temperature range	-20...+150 °C (short-term up to +180 °C)



* indicative color of lubricant

XADO T-Joint PU 2 is a special grease designed for use in internal CV joints (tripod joints), rolling and plain bearings, open gears, gear couplings, and other components and mechanisms operating at various temperatures, speeds, and loads. It effectively prevents wear due to the high durability of the lubricating film, even under shock and vibration conditions.

Hi-TEMP 2

- 高温・高荷重条件の転がり・すべり軸受向けポリウレアグリース。
- 高い熱安定性と耐久性を備えます。
- NLGI 2 / 使用温度 - 20 ~ +180 （最大 +200 ） / RF 15.5

> INNOVATIVE NANO TECHNOLOGY <

PU Hi-TEMP



15.5
REVITAL
FACTOR

The optimal choice for the lubrication of high-speed bearings and other components! This grease is especially recommended for use under conditions of constant high operating temperatures and loads.

SPEC

High
Speed



EP





ISO classification	ISO-L-XBFB 2
Thickener	Polyurea
Consistency grade	NLGI 2
Dropping point	>280 °C
Base oil viscosity at 40 °C	150 mm²/s
Four-ball wear scar	0.47 mm
Separation of oil from grease according to ASTM D-6184, 24 h, 100 °C	<1.2%
Temperature range	-20...+180 °C (maximum up to +200 °C)



* Indicative color of lubricant

XADO Hi-Temp 2 is your indispensable assistant in demanding conditions! This multifunctional grease is designed to lubricate rolling and plain bearings even at high temperatures and loads. Its particular advantages are its high stability and excellent thermal resistance.

MAX-TEMP 2

- 高温・中速・高荷重用途向けの耐熱グリース。集中給脂にも対応。
- カルシウムスルホネート増ちょう剤により滴点300 超。
- NLGI 2 / 使用温度 - 20 ~ +220 （短時間 +240 ） / RF 15.5

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MAX-TEMP 2



15.5
REVITAL
FACTOR

A universal heat-resistant grease recommended for mining, marine, metallurgical, automotive, food, and many other applications.

SPEC





EP



DIN classification	KP2T-20
ISO classification	ISO-L-XBGIB 2
Thickener	Calcium sulfonate
Consistency grade	NLGI 2
Dropping point	>300 °C
Copper corrosion, ASTM D 4048	1a
Base oil viscosity at 40 °C	100 mm²/s
Four-ball weld load	4,000 N (400 kg)
Temperature range	-20...+220 °C (short-term up to +240 °C)



* indicative color of lubricant

XADO MAX-TEMP 2 is a multifunctional heat-resistant grease designed for components and mechanisms operating at high temperatures and medium speeds. It is suitable for use in centralized lubrication systems, and its stability ensures reliable lubrication even under high loads. Thanks to the latest type of thickener, the dropping point of the grease exceeds 300 °C, ensuring maximum efficiency and durability.

Hi-SPEED 2

- 高速軸受、オープンギア、ギアカップリング、ロープなど幅広い用途に対応。
- 耐摩耗・防錆・酸化安定性と耐振動性を重視したポリウレアグリース。
- NLGI 2 / 使用温度 - 20 ~ +150 （短時間 +180 ） / RF 15.5
- 高速条件：最大800,000 rpmクラス。

> INNOVATIVE NANO TECHNOLOGY <

PU Hi-SPEED



15.5
REVITAL
FACTOR

A grease designed to lubricate high-speed bearings and other components that operate at speeds up to an incredible 800,000 rpm. It provides reliable protection and optimal performance.

SPEC

High
Speed

EP

H₂O

O₂

vibration

DIN classification	KP2N-20
ISO classification	ISO-L-XBFI 2
Thickener	Polyurea
Color	Light brown
Consistency grade	NLGI 2
Dropping point	>280 °C
Base oil viscosity at 40 °C	150 mm ² /s
Four-ball weld point	3,150 N (315 kg)
Temperature range	-20...+150 °C (short-term up to +180 °C)



* Indicative color of lubricant

XADO Hi-SPEED 2 is a special polyurea grease recommended for use in rolling and plain bearings, open gears, gear couplings, ropes, and other components and mechanisms operating in a wide range of temperatures, speeds, and loads. It contains a unique additive package that provides long-term protection against wear, corrosion, and oxidation. The grease is also characterized by high durability of the lubricating film, which makes it suitable for use under shock and vibration conditions.

MAX-SPEED 2

- 合成基油・PAO・エステルベースの超高速用特殊グリース。
- 高速・高荷重・極低温など過酷な条件向け。
- NLGI 2 / 使用温度 - 40 ~ +160 （短時間 +200 ） / RF 15.5
- 高速産業軸受、タービン、ファン、スピンドルなど最大1,000,000 rpmクラス。

> INNOVATIVE NANO
 TECHNOLOGY <

MAX-SPEED



15.5
REVITAL
FACTOR

This special grease is designed for use in high-speed industrial bearings, turbines and fans, spindle bearings of metalworking machines, and other equipment operating at speeds in the 1,000,000-rpm range.

SPEC

High
Speed





EP



H₂O

DIN classification	KPHC2P-40
ISO classification	ISO-L-XDGIB 2
Thickener	Barium complex
Color	Beige
Consistency grade	NLGI 2
Dropping point	>245 °C
Base oil viscosity at 40 °C	22 mm ² /s
Four-ball weld load	3,150 N (315 kg)
Speed factor	1,000,000
Temperature range	-40...+160 °C (short-term up to +200 °C)



* Indicative color of lubricant

XADO MAX-SPEED 2 is a special synthetic grease based on synthetic base oils, **PAOs, and esters**. It is designed for reliable lubrication of friction units operating at high speeds and loads, as well as in harsh environmental conditions at extremely low temperatures. **XADO MAX-SPEED 2** guarantees excellent performance and reliable protection even under the most demanding conditions.

新旧グリース対応表

- 旧製品から新世代製品への対応例：
- Repairing Grease → PRO MAX EP 2
- Supergrease → LX EP 2
- Lithium Grease for CV Joints → LX MO 2
- Grease for CV Joints → T-Joint PU 2
- XADO 250 → Hi-TEMP 2
- XADO 300 / THERMOLUBE 300 → MAX-TEMP 2
- Protective / Restoring Grease 20K → Hi-SPEED 2
- Protective Grease 60K → MAX-SPEED 2

Comparison Table

Current greases	New greases
The new product is made to military specifications (G-460) and does not replace any old grease	Unigrease 2
XADO Protective Grease / XADO Restoring Grease / VERYLUBE Universal Lithium Grease	Li EP 2/3 NLGI 2
XADO Repairing Grease	PRO MAX EP 2
VERYLUBE Universal Lithium Grease / VERYLUBE Complex Lithium Grease / XADO Supergrease	LX EP 2
VERYLUBE Lithium Grease for CV Joints	LX MO 2
XADO Grease for CV Joints	T-Joint PU 2
XADO 250	Hi-TEMP 2
XADO 300 / THERMOLUBE 300	MAX-TEMP 2
XADO Protective Grease 20K / XADO Restoring Grease 20K	Hi-SPEED 2
XADO Protective Grease 60K	MAX-SPEED 2



Revitalization Coefficient と RF

- 旧パッケージの「Revitalization Coefficient ○%」と、現在のREVITALIZATION Factor (RF) は別の指標です。
- RFは形成される表面の再生能力・負荷条件を示すための指標として使用されます。
- 部品の修復度合いは、摩耗状態や荷重強度によって異なります。
- 速やかな修復を目的とする場合、REVITALIZANT®ジェルとの併用が推奨されています。

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Comparison

You may have seen the phrase "Revitalization Coefficient ____%" on old tubes and cartridges.



≠



IMPORTANT!!!

Revitalization Coefficient ≠ Revitalization Factor

The revitalization of the coating depends on the REVITALIZATION Factor, and the geometry of a part can be restored up to 100%, even if the RF itself is just 15; it all depends on the degree of wear of the part and the intensity of the load.

For a quick restoration of the part, we recommend the use of REVITALIZANT® gels together with grease.

XADO

Conclusion

1. XADO offers a comprehensive approach to the lubrication of your equipment. Our line of greases is suitable for various types of industrial and household equipment, which allows you to avoid the need to search for greases from different manufacturers.
2. The presence of REVITALIZANT® in greases protects parts from wear. This component will help you extend the service life of your mechanisms and reduce maintenance costs.
3. We use raw materials from global manufacturers, which ensures the consistently high quality of our greases and guarantees peak performance of your equipment throughout its lifetime.
4. The consistency of the grease is maintained over long periods of storage.
5. The availability of two types of packaging allows you to choose the right volume.
6. The cartridge has a standard geometry that is compatible with most pistol-grip and plunger syringes.
7. Thanks to new components and updated formulas that are on par with their global counterparts, you can be sure that the new line of XADO greases meets the most advanced global quality standards.

まとめ

- XADOは産業機器・車両・一般機器まで幅広い用途をカバーするグリースラインを提供します。
- REVITALIZANT®配合により摩擦部を摩耗から保護し、機構寿命の延長とメンテナンスコスト低減を目指します。
- 世界的メーカーの原材料を使用し、長期保管後のちょう度維持にも配慮しています。
- 125mlチューブやカートリッジなど、用途に応じたパッケージを選択できます。

ありがとうございました

- XADO GREASES - NEW GENERATION
- XADO JAPAN 技術資料 日本語版

The image shows a red rectangular area with the XADO logo in white. The logo consists of the word 'XADO' in a bold, sans-serif font. To the right of the logo, there are several out-of-focus light spots of varying sizes and colors (white, yellow, orange) that create a bokeh effect. Below the logo, the text '> Thank you <' is written in a smaller white font.

XADO

> Thank you <