

# The benefits offered by TotalEnergies Lubrificants

## LubAnac

provides you a full range of lube oil analysis, to allow you to anticipate and diagnose anomalies in the equipment.

### Thanks to LubAnac, you:

- Reduce your operating costs.**
- Anticipate and plan** maintenance operations to perform them at the best time.
- Optimize drain intervals and extend the lifetime** of your equipment.
- Improve the reliability and performance** of your equipment.



### Our expert supports

#### Site audit:

- Identification of Critical point of Lubrication (HACCP approach).
- Product recommendation, optimization, handling and storage rules.
- Stock rationalization customized on site trainings in order to fit with maintenance team expectations.

## LubInsight maintenance planner

optimizes maintenance software for your lubricants.

Built on the expertise of our engineers, LubInsight maintenance planner offers you to:

- Increase efficiency** and savings of your maintenance management.
- Monitor lubricant parameters and analyses** with a single tool.
- Assert your quality and safety management** through management of lubricant documentation and critical points.

LubInsight maintenance planner will help you to deploy and monitor your HACCP\* policy on a day to day basis.

### The 7 principles of HACCP

### The solutions offered by LubInsight maintenance planner

|  |   |
|--|---|
| Risk analysis.                         | <ul style="list-style-type: none"> <li>▪ Maintenance plan readings on site.</li> <li>▪ Data entry in LubInsight maintenance planner.</li> </ul> |
| Critical Control Point (CCP).          | <ul style="list-style-type: none"> <li>▪ Identification of the critical points.</li> </ul>  |
| Definition of the critical thresholds. | <ul style="list-style-type: none"> <li>▪ Allocation of the NSF H1 lubricants.</li> <li>▪ Definition of the control analyses.</li> </ul>         |
| Establishment of a monitoring system.  | <ul style="list-style-type: none"> <li>▪ Management of preventive and condition-based maintenance.</li> </ul>                                   |
| Corrective measures.                   | <ul style="list-style-type: none"> <li>▪ Management of the corrective maintenance.</li> </ul>   |
| Verification.                          | <ul style="list-style-type: none"> <li>▪ Scorecards for maintenance and critical points.</li> </ul>   |
| Documentation (HACCP plan).            | <ul style="list-style-type: none"> <li>▪ Document management.</li> <li>▪ Maintenance history.</li> </ul>  |

\*Hazard Analysis Critical Control Point.

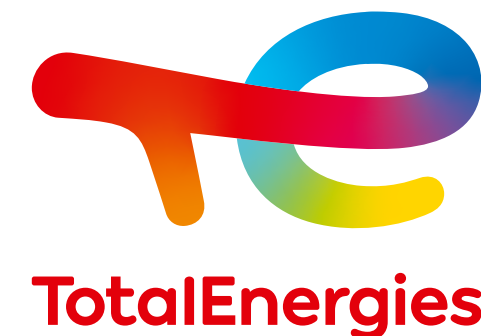
**A major player**  
With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

**References & OEMs**  
TotalEnergies Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.

**Quality and environment**  
TotalEnergies Lubrificants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.

**Support and partnership**  
Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

**Innovation & Research**  
TotalEnergies Lubrificants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.



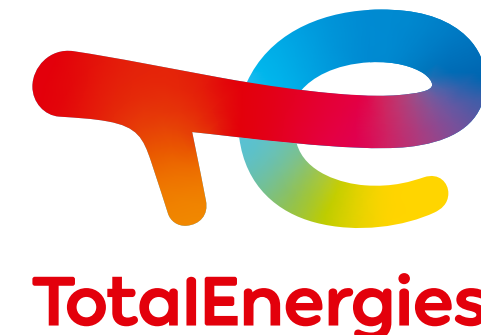
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Safety Data Sheets are available at ms-sds.totalenergies.com



TotalEnergies Industry Solutions



## Nevastane H1 high performance lubricants

Reliability and safety for all food industries



# Nevastane

## WITH MORE THAN 80 YEARS OF EXPERIENCE,

Nevastane range has been developed to support food and beverage industry in their upmost safety and performance concerns.

## GRASP YOUR INDUSTRIAL PERFORMANCE.



# Nevastane

## Greases

| PRODUCT                 | APPLICATIONS  | SPECIFIC ADVANTAGES   | THICKENER                 | NLGI GRADE | BO VISCOSITY*     | OPERATING TEMPERATURE RANGE | SPECIFICATIONS                   |                       |           |
|-------------------------|---|---|---------------------------|------------|-------------------|-----------------------------|----------------------------------|-----------------------|-----------|
|                         |   |   |                           |            |                   |                             | REGISTRATION                     | ISO 6743-9            | DIN 51502 |
| <b>Nevastane MP 1.5</b> | • Extreme pressure, multipurpose grease for bearings for food processing industry.<br>• Suitable for pelleting presses.   | • Protection against corrosion in the presence of water.<br>• Extended life of equipment.<br>• Effective in damp environment.   | Calcium Complex           | 1.5        | 150               | -20 °C to +150 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XBDBI 1/2 KP1/2N-20 |           |
| <b>Nevastane XMF 00</b> |   |   |                           | 00         |                   |                             |                                  | L-XBDAFA00            | K00N-20   |
| <b>Nevastane XMF 0</b>  | • Extreme pressure, multipurpose and adhesive grease.<br>• Suitable for high to medium speed bearings in food processing industry.  | • Good adhesiveness on metallic surfaces.<br>• Provides excellent corrosion protection and water resistance.  | Aluminium Complex         | 0          | 120               | -20 °C to +150 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XBDAFA0             | K0N-20    |
| <b>Nevastane XMF 1</b>  | • Roller and plain bearings.<br>• Crimping machines.  |   | 1                         |            |                   |                             |                                  | L-FXBDFB1             | KP1N-20   |
| <b>Nevastane XMF 2</b>  |   |   | 2                         |            |                   |                             |                                  | L-XBDFB2              | KP2N-20   |
| <b>Nevastane 2 PLUS</b> | • Extreme pressure, multipurpose and very adhesive grease.<br>• Suitable for food processing application when high adhesiveness is required.<br>• Roller and plain bearings - high and medium speed.<br>• Crimping machines.  | • Excellent adhesiveness.<br>• Provides excellent corrosion protection and water resistance.  | Aluminium Complex         | 2          | 150               | -20 °C to +150 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XBFB2               | OGP2R-20  |
| <b>Nevastane HD2T</b>   | • Extreme pressure, multipurpose tacky grease for food processing in presence of water.<br>• Suitable for loaded bearings, bottling and crimping machines.  | • Contains PTFE additives.<br>• Exceptional adhesiveness on metal surfaces.<br>• Excellence resistance to water washout.<br>• Excellent antiwear protection.<br>• Low friction coefficient. | Aluminium Complex         | 2          | 150               | -20 °C to +150 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XBDFB2              | KP2N-20   |
| <b>Nevastane XM 100</b> | • Food and feed industry.<br>• Lubrication under severe conditions.<br>• Specific for pumpability at low temperatures - Nevastane XM 100.<br>• Recommendation for pelleting presses - Nevastane XM 460.   | • Long service life.<br>• Water resistance.<br>• Multipurpose grease.<br>• High load carrying properties.<br>• Reduction of consumption.<br>• Superior anti-corrosion properties.           | Calcium Sulfonate Complex | 2          | 100               | -25 °C to 180 °C            | NSF H1 ISO 21469<br>Kosher Halal | L-XBFB 2              | KP2R-25   |
| <b>Nevastane XM 460</b> |   |   | 1.5                       | 460        | -25 °C to 180 °C  |                             | NSF H1 ISO 21469<br>Kosher Halal | L-XBFB 2              | KP2R-25   |
| <b>Nevastane XS 80</b>  |   |   |                           | 80         | -55 °C to +150 °C |                             |                                  | L-XEFFB 1/2           | KP1/2R-55 |
| <b>Nevastane XS 220</b> | • Extreme pressure, very high performances synthetic grease for high speed and very low temperatures applications in food processing industry.<br>• Specific for low temperatures / freezing tunnels - Nevastane XS 80.<br>• Bearing under loads and subject to shocks - Nevastane XS 220.<br>• Specific for pelleting machines - Nevastane XS 320. | • Synthetic.<br>• Very low temperature.<br>• Excellent water resistance.<br>• Long service life.<br>• Reduced energy consumption.   | Calcium Sulfonate Complex | 1.5        | 220               | -40 °C to +180 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XDDIB 1/2           | KP1/2R-40 |
| <b>Nevastane XS 320</b> |   |   |                           | 320        |                   |                             |                                  | L-XDFFB 1/2           | KP1/2R-40 |
| <b>Statermic NR</b>     | • Special fluorine compounds-based grease for high temperatures, resistant to powerful acids, halogenated compounds, alcohols, oxidants and radiations.   | • Protection of lubricated parts even in the presence of acids, halogenated alcohols, oxidants or in the presence of radiation.<br>• NSF H1.  | Fluorine                  | 2          | 375               | -25 °C to +250 °C           | NSF H1 ISO 21469<br>Kosher Halal | L-XBGB2               | KFKP2U-25 |

\* Typical kinematic viscosity of base oil at 40 °C in mm<sup>2</sup>/s.

## Your challenges

- **Food safety:** meet HACCP best in class practices, NSF H1 products, traceability.
- **Reliability and durability of the equipments:** improve your production rates, despite an increase of physical and chemical constraints.
- **Reduced oil consumption:** increase draining intervals.
- **Security of supply:** product availability worldwide.

## Oils

| PRODUCT                       | TYPE               | APPLICATIONS  | SPECIFIC ADVANTAGES   | ISO VG       | SPECIFICATIONS   |
|-------------------------------|--------------------|---|---|--------------|--|
| <b>Nevastane AW</b>           | White Mineral      | • Hydraulic systems.<br>• Air-line lubricators.   | • Excellent anti-wear and corrosion protection.<br>• Increase equipment service life.<br>• Miscible with mineral fluids.                              | 22 to 68     | NSF H1 • ISO 21469<br>• ISO 6743-4 HM<br>• Kosher • Halal  |
| <b>Nevastane SH</b>           | Synthetic (PAO)    | • Air compressor.<br>• Vacuum pumps.<br>• Hydraulic systems and especially those operating at low temperatures. | • Wide temperature range.<br>• Excellent equipment protection.<br>• Extension of oil drain intervals.<br>• High viscosity index.                      | 32 to 100    | NSF H1 • ISO 21469<br>• ISO 6743-4 HV<br>• Kosher • Halal  |
| <b>Nevastane EP</b>           | Semi-synthetic     | • Gears.<br>• Plain and roller bearings.<br>• Conveyor belts and chains.  | • Superior protection against high loads.<br>• Adapted to a wide range of applications.   | 100 to 1 000 | NSF H1 • ISO 21469<br>• ISO 6743-6 CKD<br>• Kosher • Halal |
| <b>Nevastane XSH</b>          | Synthetic (PAO)    | • Gears.<br>• Plain and roller bearings.<br>• Conveyor belts and chains.<br>• Slideways.                        | • Wide temperature range.<br>• Low temperature start-up.<br>• Excellent equipment protection.<br>• Extension of oil drain intervals.<br>• High loads. | 150 to 460   | NSF H1 • ISO 21469<br>• ISO 6743-6 CKD<br>• Kosher • Halal |
| <b>Nevastane SY</b>           | Synthetic (PAG)    | • High temperature oven chains.<br>• Bottling equipment.<br>• Worm gears.                                       | • Excellent thermal stability.<br>• High loads.<br>• Extension of oil drain intervals.<br>• Outstanding extreme pressure properties.                  | 220 to 460   | NSF H1 • Kosher<br>ISO 12925-1CKD                          |
| <b>Nevastane CHAIN OIL XT</b> | Synthetic (Esters) | • Conveyor belts.<br>• Oven chains.<br>• Mechanisms that operate at high temperatures.                          | • Very good thermal stability.<br>• Low volatility.<br>• High lubricating power.<br>• Excellent adhesiveness.   | 220          | NSF H1 • Kosher • Halal                                    |

## Nevastane specialities

| PRODUCT                     | TYPE                 | APPLICATIONS  | SPECIFIC ADVANTAGES   | ISO VG | SPECIFICATIONS   |
|-----------------------------|----------------------|---|---|--------|--|
| <b>Nevastane SDO</b>        | Sugar dissolving oil | • Dissolves sugar accumulated on equipment in production and packaging areas.<br>• Application in pure or diluted form.                       | • Excellent for dissolving accumulated sugar on machine parts.<br>• Dirt removing power.<br>• Reduction of maintenance costs and shutdowns. |        | NSF H1   |
| <b>Nevastane ANTIFREEZE</b> | MPG based antifreeze | • Cooling circuits, including drinks, ice creams and frozen food processing.  | • Specific protection of alloys and metal equipment against corrosion.  |        | NSF HT1  |
| <b>Nevastane HTF</b>        | White Mineral        | • Closed circuits.<br>• Numerous manufacturing processes in Agri-food Industry: water baths, autoclaves, reactors, ovens, presses and moulds. | • Process temperature < +310 °C (+330 °C in the film).  | 32     | NSF H1 • ISO 21469<br>• ISO 6743-12 L-QC<br>Kosher • Halal |

## Spray range

| PRODUCT                                | COLOR PACK | APPLICATIONS   |
|--|------------|--|
| <b>Nevastane LUBE SPRAY</b>            | •          | Multipurpose lubricant for daily lubrication                                 |
| <b>Nevastane GREASE SPRAY</b>          | •          | Excellent adherence on metal surfaces  |
| <b>Nevastane XS 220 SPRAY</b>          | •          | Multipurpose grease for all applications in severe conditions                |
| <b>Nevastane PTFE GREASE SPRAY</b>     | •          | Long-lasting lubrication of moving parts under high shear or vibrations      |
| <b>Nevastane CHAIN OIL SPRAY</b>       | •          | High penetrating power to small mechanisms (Chains, conveyors)               |
| <b>Nevastane SILICONE SPRAY</b>        | •          | Creation of a protective silicone film                                       |
| <b>Nevastane PENETRATING OIL SPRAY</b> | •          | Multipurpose fluid for the release of seized mechanisms in severe conditions |
| <b>Nevastane DEGREASER SPRAY</b>       | •          | Multipurpose cleaning / degreasing agent                                     |



## Our solutions

- **NSF H1** solution product, allergen and GMO free certified products and ISO 21469 certified plants, Halal & Kosher certifications.
- **Full range of synthetic products**, PAO, PAG, Ester, outstanding performance calcium, sulfonate complex and PTFE greases.
- **A global network** of more than 120 affiliates and local warehouses. Technical experts in each country to support you on HACCP approach and implementation.
- **TCO approach:** product rationalization, proven outstanding performance of our premium products.

## Specific products food contact application

### Process oils

| PRODUCT                   | NATURE              | APPLICATIONS  | SPECIFIC ADVANTAGES   | VISCOSITY* | SPECIFICATIONS   |
|---------------------------|---------------------|---|---|------------|--|
| <b>Finavestan A 50 B</b>  |                     |   |   | 7.5        |  |
| <b>Finavestan A 80 B</b>  |                     |   |   | 15         |  |
| <b>Finavestan A 100 B</b> |                     |   |   | 23         | Kosher Halal<br>The use of these oils depends on the national legislation in force                     |
| <b>Finavestan A 180 B</b> | Medicinal white oil | • Designed for the following industries: - plastics: plasticizer for PS and other polymers, for all packaging intended for food contact. - pharmaceutical: excipient. | • Very high purity.<br>• Odourless, flavourless, colourless.<br>• Does not contain sulphur or aromatic hydrocarbon. | 29         | • US Pharmacopoeia<br>• European Pharmacopoeia<br>USA FDA: 21 CFR 178.3620<br>• (g), white mineral oil |
| <b>Finavestan A 210 B</b> |                     |   |   | 40         |  |
| <b>Finavestan A 360 B</b> |                     |   |   | 70         |  |
| <b>Finavestan A 520 B</b> |                     |   |   | 100        |  |

### Refrigerating compressor oil

| PRODUCT           | NATURE        | APPLICATIONS                                   | SPECIFIC ADVANTAGES                 | VISCOSITY* | SPECIFICATIONS  |
|-------------------|---------------|--|-------------------------------------|------------|---|
| <b>Lunaria SH</b> | Synthetic PAO | • Refrigerating compressors using NH3/ammonia. | • Evaporating temperature > -50 °C. | 46<br>68   | NSF H1 • Kosher<br>ISO 6743-3 DRA<br>• APV • Gram • Bock<br>• J & E Hall • Grasso<br>• Howden • Sabroe • York |

### Vacuum pumps oil

| PRODUCT          | NATURE         | APPLICATIONS  | SPECIFIC ADVANTAGES                     | VISCOSITY* | SPECIFICATIONS                             |
|------------------|----------------|---|---|------------|--|
| <b>PV SH 100</b> | Semi-synthetic | • Alternating and rotary vacuum pump.<br>• Extraction of acid or corrosive gases. | • Suitable for incidental food contact. | 100        | Kosher • Halal<br>ISO 6743-3 DVD<br>NSF H1 |

### Mechanical seal

| PRODUCT                | NATURE  | APPLICATIONS                       | SPECIFIC ADVANTAGES  |
|------------------------|---|------------------------------------|--|
| <b>Barrier FLUID 5</b> | Bio-sourced and biodegradable synthetic hydrocarbon fluid | • Lubrication of mechanical seals. | • Ensure lower internal friction and more efficient heat dissipation.<br>• Limit the deposit formation at high temperatures and extend the lifetime of mechanical seals.<br>• Suitable for mechanical seals used in food industry.<br>• Chemically inert and compatible with process fluids.<br>• Compatible with conventional seals, paints and coatings. |

### Aluminium packaging industry

| PRODUCT                | NATURE                  | APPLICATIONS  | SPECIFIC ADVANTAGES   | HSE                           | VISCOSITY*      | SPECIFICATIONS        |
|------------------------|-------------------------|---|---|-------------------------------|-----------------|-----------------------|
| <b>Martol FMO CF</b>   | Aluminium               | • Food packaging.   | • Formulated with NSF 3H ester, suitable for direct food contact. |                               | 15<br>75<br>235 | Kosher<br>Halal<br>3H |
| <b>Martol EV 10 CF</b> | Ferrous and non-ferrous | • Light cutting and die stamping operations.<br>• For thicknesses from 0.2 to 0.5 mm. | • Odourless.<br>• Excellent film coverage.                        | Chlorine free<br>Sulphur free | 2.2 at 20 °C    | ISO-L-MHB<br>INS H1   |

\* Typical kinematic viscosity of base oil at 40 °C in mm<sup>2</sup>/s.

## Industry leading standards

for quality, safety and traceability

To evidence our commitment with the utmost stringent guidelines and regulation

All Nevastane range is registered as NSF H1!



- Suitable for incidental food contact.
- H1 registration is based on a strict list of raw materials validated by FDA 21 CFR 178.3570.

All our plants producing Nevastane are ISO 21469!



- International standard about hygiene, safety and quality with an annual audit by NSF.
- Today, our plants are key to ensure the high quality of our products.

To respect all needs from our clients worldwide

Nevastane is also concerned by Kosher and Halal certifications!



Our plants are audited to comply with standards of "kashrut" (Jewish dietary law) for Kosher and Islamic law for Halal.

To ensure reliability and safety

Nevastane is developed to focus on performance through controlled compounds!



These lubricants do not present any of the potential risks associated to products of animal origin. Nevastane is free of GMO and no allergens are intentionally introduced during the manufacturing of our products.

To mitigate risks and bring comfort in daily life at your warehouse

Nevastane has a dedicated packaging to be easily identified as "H1 lubricant".

