

## FOOD INDUSTRY

NSF H1 lubricants

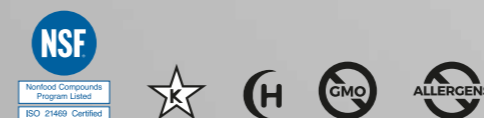
Energizing performance. Every day



# WITH MORE THAN 50 YEARS OF EXPERIENCE,

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

## GRASP YOUR INDUSTRIAL PERFORMANCE.





## 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

## 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.



## Greases

PRODUCT	APPLICATIONS	SPECIFIC ADVANTAGES	THICKENER	NLGI GRADE	RO VISCOSITY*	OPERATING TEMPERATURE RANGE	SPECIFICATIONS		
							REGISTRATION	ISO 6743-9	DIN 51502
<b>TOTAL NEVASTANE MP 1.5</b> (ex AXA GR 1)	• Extreme Pressure, multipurpose grease for bearings in the presence of water. • Suitable for pelleting presses.	• Protection against corrosion in the presence of water. • Extended life of equipment. • Effective in damp environment.	Calcium Complex	1.5	150	-20 °C to +150 °C	NSF H1 ISO 21469 KOSHER HALAL	L-XBDIB 1/2	KP1/2N-20
<b>TOTAL NEVASTANE XMF 00</b>				00				L-XBDFAO	K00N-20
<b>TOTAL NEVASTANE XMF 0</b>	• Extreme Pressure, multipurpose and adhesive grease. • Suitable for high to medium speed bearings in Food Processing Industry. • Roller and plain bearings. • Crimping machines.	• Good adhesiveness on metallic surfaces. • Provides excellent corrosion protection and water resistance.	Aluminium Complex	0	120	-20 °C to +150 °C	NSF H1 ISO 21469 KOSHER HALAL	L-XBFA0	K0N-20
<b>TOTAL NEVASTANE XMF 1</b>				1				L-FXBDFB1	KP1N-20
<b>TOTAL NEVASTANE XMF 2</b>				2				L-XBDFB2	KP2N-20
<b>TOTAL NEVASTANE 2 PLUS</b>	• Extreme Pressure, multipurpose and very adhesive grease. • Suitable for Food Processing application when high adhesiveness is required. • Roller and plain bearings - high and medium speed. • Crimping machines	• Excellent adhesiveness. • Provides excellent corrosion protection and water resistance.	Aluminium Complex	2	150	-20 °C to +150 °C	NSF H1 ISO 21469 KOSHER HALAL	L-XBFHB2	O6P2R-20
<b>TOTAL NEVASTANE HD2T</b>	• Extreme Pressure, multipurpose tacky grease for food processing in presence of water. • Suitable for loaded bearings, bottling and crimping machines.	• Contains PTFE additives. • Exceptional adhesiveness on metal surfaces. • Excellence resistance to water washout. • Excellent antiwear protection. • Low friction coefficient.	Aluminium Complex	2	150	-20 °C to +150 °C	NSF H1 ISO 21469 KOSHER HALAL	L-XBDFB2	KP2N-20
<b>TOTAL NEVASTANE XM 100</b>	• Food and feed industry • Lubrication under severe conditions • Pelleting presses • Recommendation	• True multi purpose grease. • High load carrying properties. • Long service life. • Reduction of consumption. • Water resistance. • Superior anti-corrosion properties.	Calcium Sulfonate Complex	2	100	-25 °C to 180°C	NSF H1	L-XBFB 2	KP2R-25
<b>TOTAL NEVASTANE XS 80</b>	• Extreme Pressure, very high performances synthetic grease for high speed and very low temperatures applications in Food Processing Industry. • Bearings at low temperatures. Oven turbines. • Sterilisers. Freezing tunnels.				80	-55 °C to +180 °C		L-XEFFB 1/2	KP1/2R-55
<b>TOTAL NEVASTANE XS 220</b>	• Extreme Pressure, very high performances synthetic grease for multipurpose application in Food Processing Industry over a wide range of temperatures. • Bearings under loads and subject to shocks.	• Synthetic. • Very low temperature. • Excellent water resistance. • Long service life. • Reduced energy consumption.	Calcium Sulfonate Complex	1.5	220		NSF H1 ISO 21469 KOSHER HALAL	L-XDDIB 1/2	KP1/2R-40
<b>TOTAL NEVASTANE XS 320</b>	• Extreme Pressure, slow motion, very high performances grease for loaded application in Food Processing Industry. • Suitable for pelleting machines. • Bearings under loads and subject to shocks.				320	-40 °C to +180 °C		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. • NSF H1.	Fluorine	2	375	-25 °C to +250 °C	NSF H1 ISO 21469	L-XBGDB 2	KFP2U-25

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

## Oils

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

## Aerosols

PRODUCT	TYPE	APPLICATIONS	SPECIFIC ADVANTAGES	TEMPERATURE RANGE	SPECIFICATIONS
<b>TOTAL NEVASTANE LUBE AEROSOL</b>	Multipurpose translucent adhesive oil	• Small machines requiring almost daily lubrication. • Conveyors and rails. • Packaging machines. • Plain and roller bearings.	• Exceptional adhesion to metal surfaces. • Resistant to water, steam and weak acid and alkaline atmospheres. • Compatible with most of elastomers and plastics.	-20 °C to +150 °C	NSF H1
<b>TOTAL NEVASTANE GREASE AEROSOL</b>	Water resistant grease Alu Complex	• Hinges, springs, chains, rails and tools.	• Excellent resistance to water and steam. • Exceptional adhesion to metal surfaces. • Insensitive to detergents.	-20 °C to +150 °C	NSF H1
<b>TOTAL NEVASTANE SILICONE SAFEGARD</b>	Multipurpose Silicone oil	• Small machines and chains subject to extreme temperatures. • Shrink oven chains. • Conveyors and rails.	• Very wide temperature range. • Insulating, anti-rust and anti-corrosion. • Spray without propellant gas (Safeguard technology) for environmental protection.	-40 °C to +200 °C	NSF H1 • KOSHER

## Specific Products

PRODUCT	TYPE	APPLICATIONS	SPECIFIC ADVANTAGES	ISO VG	SPECIFICATIONS
<b>TOTAL NEVASTANE FLUSH OIL</b>	Light viscosity fluid for cleaning and flushing	• Cleaning or flushing of hydraulic systems, gear reducers, chains and other moving components.	• Elimination of deposits and impurities. • Excellent solvent power. • Ideal for changing from standard lubricant to NSF H1 lubricant (except PAG and MPG).	9.5	NSF H1 • KOSHER • HALAL
<b>TOTAL NEVASTANE SDO</b>	Sugar dissolving oil	• Dissolves sugar accumulated on equipment in production and packaging areas. • Application in pure or diluted form.	• Excellent for dissolving accumulated sugar on machine parts. • Dirt removing power. • Reduction of maintenance costs and shutdowns.		NSF H1
<b>TOTAL 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>TOTAL NEVASTANE HTF</b>	White Mineral	• Closed circuits. • Numerous manufacturing processes in Agrifood industry: water baths, autoclaves, reactors, ovens, presses and moulds.	• Process temperature < +310 °C (+330 °C in the film).	32	NSF H1 • ISO 21469 • ISO 6743-12 L -OC KOSHER • HALAL

## Solvents & Detergents

PRODUCT	NATURE	APPLICATIONS	SPECIFIC ADVANTAGES	DENSITY**	SPECIFICATIONS
<b>FINADET FPI</b>	Special agrifood detergent	• Degreaser and cleaner for the Agrifood Industries: metal or plastic parts, vehicles designed for transportation of foodstuffs.	• Meets the requirements of the Food Industries.	1086	NSF A1 Menthol perfume
<b>FINASOL FPI</b>	Synthesis hydrocarbon Benzene-free Aromatic-free	• Degreaser and cleaner for the Agrifood Industries: machine parts, chassis machine tools, bearings, pinions, filters, chains.	• Odorless. • Compatible with metals, glass, ceramics, composite materials, most thermoplastics and thermosets insensitive to organic solvents.	742	NSF K1
<b>LUNARIA SH</b>	Synthetic PAO	• Refrigerating compressors using NH3/ammonia.	• Evaporating temperature > -50 °C.	46 68	ISO 6743-3 DRA • APV • Gram • Bock • J & E Hill • Grasso • Howden • Sabroe • York

## Vacuum Pumps

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

## Aluminium Packaging Industry

PRODUCT	METALS	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 75 235	3H
<b>MARTOL EV 10 CF</b>	Ferrous and non-ferrous	• Light cutting and die stamping operations. • For thicknesses from 0.2 to 0.5 mm.	• Odourless. • Excellent film coverage.	Chlorine free Sulphur free	2.2 at 20 °C	ISO-L-MHB INS H1
<b>AZOLLA AL</b>		• Hydraulic systems of aluminium, stainless steel or copper rolling mills.	• Synthetic oil avoids staining rolled metal in the event of a leak in the hydraulic circuit. • Reduction in the formation of deposits. • Anticorrosion protection even in the presence of water.		15 to 68	NSF H1
<b>LUBRILAM CLEANER H1</b>	Aluminium	• Air purification oil.	• Resistance to oxidation. • Solvent recovery power. • Suitable for incidental food contact requirements.		29.8 at 40 °C	AIRPURE systems Meets the requirements of the FDA CFR 178.3570

\* Typical kinematic viscosity of base oil at 40 °C in mm<sup>2</sup>/s  
\*\* Density at 25 °C in kg/m<sup>3</sup>

## Process Oil

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
<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. • Odourless, flavourless, colourless. • Does not contain sulphur or aromatic hydrocarbon.		29
<b>FINAVESTAN A 210 B</b>					40
<b>FINAVESTAN A 360 B</b>					70
<b>FINAVESTAN A 520 B</b>					100

## Industry Leading Standards for Quality, Hygiene and Traceability

To evidence our commitment to applying the upmost stringent guidelines all our plants producing the TOTAL NEVASTANE range are ISO 21469 as are the TOTAL NEVASTANE products produced in these facilities.

### ISO 21469 means:

- Formulation review.
- Product testing.
- Traceability and verifications.
- Annual independent audit of our facility and products.
- Investigation of complaints.
- Corrective action and enforcement.
- Risk Assessment.
- Continuous Improvement.





# The benefits offered by



## TOTAL ANAC INDUS

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



### THANKS TO TOTAL ANAC INDUS, 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.

## TOTAL TIG 6 optimized maintenance software for your lubricants

Built on the expertise of our engineers, TIG 6 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.

TIG 6 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 TIG 6

<b>Risk analysis.</b>	<ul style="list-style-type: none"> <li>■ Maintenance plan readings on site.</li> <li>■ Data entry in TIG.</li> </ul>
<b>Critical Point Control (CCP).</b>	<ul style="list-style-type: none"> <li>■ Identification of the critical points.</li> </ul>
<b>Definition of the critical thresholds.</b>	<ul style="list-style-type: none"> <li>■ Allocation of the NSF H1 lubricants.</li> <li>■ Definition of the control analyses.</li> </ul>
<b>Establishment of a surveillance system.</b>	<ul style="list-style-type: none"> <li>■ Management of preventive and condition-based maintenance.</li> </ul>
<b>Corrective measures.</b>	<ul style="list-style-type: none"> <li>■ Management of the corrective maintenance.</li> </ul>
<b>Verification.</b>	<ul style="list-style-type: none"> <li>■ Scorecards for maintenance and critical points.</li> </ul>
<b>Documentation (HACCP plan).</b>	<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 150 countries, we deliver a full range of lubricants.

### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total cost of Ownership.

### References & OEMs

Total Lubricants cooperates with equipment manufacturers to create high-technology products for optimal performance and protection of your machinery.

5 good reasons for choosing TOTAL

### Innovation & Research

Total invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

### Quality and environment

Total Lubricants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.

Safety Data Sheets are available at [www.quickfds.com](http://www.quickfds.com)  
[www.industrial.lubricants.total.com](http://www.industrial.lubricants.total.com)

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