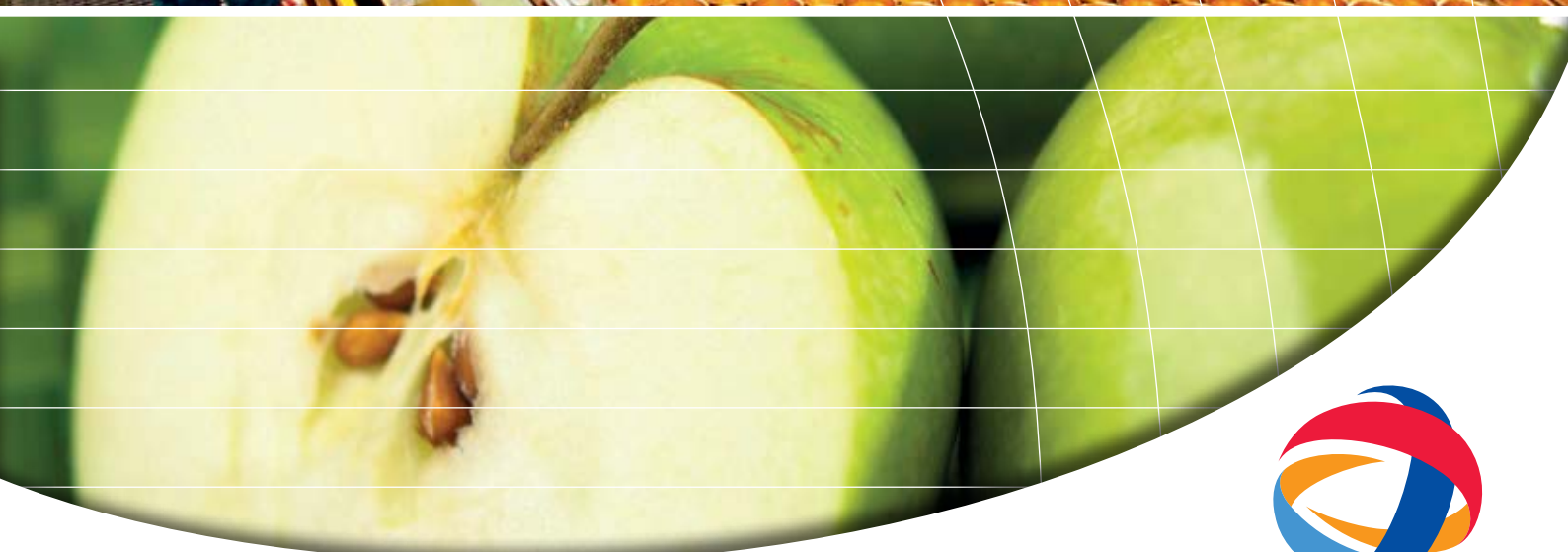
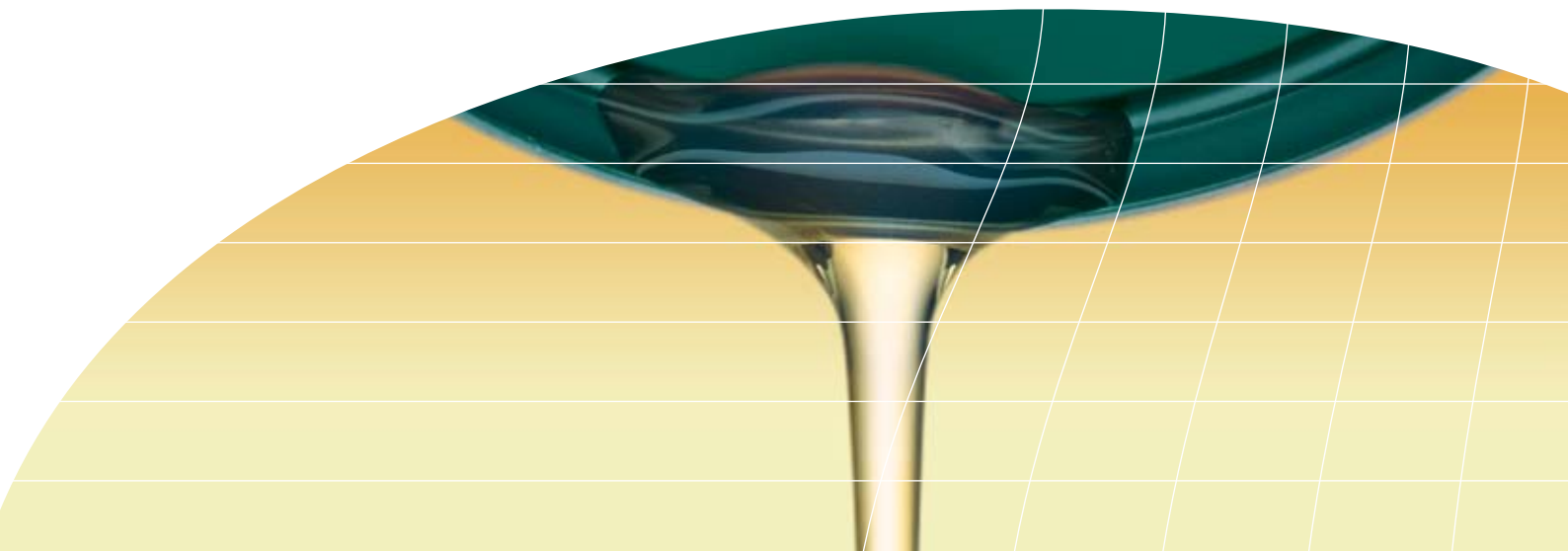


Food processing industry

Your production is secure with NEVASTANE lubricants



TOTAL

Food safety: no worries!

Guaranteeing food safety to consumers is paramount for today's food processors.

With this challenge in mind, Total Lubrifiants has developed NEVASTANE, a full range of NSF H1 registered lubricants designed for use when incidental contact with food is possible.

Using these products instead of traditional products allows you to avoid serious consequences for both the consumer and your brand image, in the event the lubricant comes into contact with the food accidentally. Use NEVASTANE with complete peace of mind!

A range of products adapted to your needs



The NEVASTANE range spans a wide array of products that have been completely reformulated to meet the latest requirements of industrial equipment suppliers. Offering improved performance for every food industry application, NEVASTANE products protect your equipment and extend its working life, even in the most difficult operating conditions such as wide temperature ranges or in presence of water or food...

The assurance that the products are:



- registered NSF H1
- free of any compound of animal origin
- GMO free
- allergen free
- manufactured in ISO 21469-certified plants

Innovative packaging



- With the clean and easy-to-use **LUBE SHUTTLE GREASE GUN**, you can quickly apply grease with just one hand.
- **GREASYMAT** is a new standalone, rechargeable automatic grease applicator that offers 10-bar ejection pressure.



RECOMMENDATIONS FOR USE

- Store the NSF H1 lubricants in a separate and well-identified area.
- Flush your equipment with the food grade suitable product before converting to NSF H1 lubricant for the first time (contact us).
- Label your transfer containers and dispensing equipment in order to avoid any potential cross contamination.
- Comply with the recommended product lifespan indicated on our technical datasheets, available at our website:
www.total.fr/pro/lubrifiants-industrie.html

Oils

	Type	Applications	Specific advantages	ISO VG	Specifications
NEVASTANE AW	Hydraulic oil based on white medicinal oil	<ul style="list-style-type: none"> Hydraulic systems Air-line lubricators 	<ul style="list-style-type: none"> Excellent anti-wear and corrosion protection Miscible with mineral fluids 	22 to 68	NSF H1 Kosher Halal
NEVASTANE SH	Synthetic (PAO) hydraulic, compressor and pneumatic oil	<ul style="list-style-type: none"> Air compressors Vacuum pumps Hydraulic systems and especially those operating at low temperatures 	<ul style="list-style-type: none"> 100% synthetic Wide temperature range Significant extension of oil drain intervals High viscosity index 	32 to 100	NSF H1 Kosher Halal
NEVASTANE EP	Gear oil based on white medicinal oil and synthetic oil	<ul style="list-style-type: none"> Reduction gears Plain and roller bearings Conveyor belts and chains 	<ul style="list-style-type: none"> Superior protection against high loads Adapted to a wide range of applications 	100 to 1,000	NSF H1 Kosher Halal
NEVASTANE XSH	Gear oil Synthetic PAO	<ul style="list-style-type: none"> Reduction gears Plain and roller bearings Conveyor belts and chains 	<ul style="list-style-type: none"> 100% synthetic Wide temperature range Significant extension of oil drain intervals 	150 to 460	NSF H1 Kosher Halal
NEVASTANE SY	Gear oil Synthetic PAG	<ul style="list-style-type: none"> Worm gears and reducers High temperature oven chains Bottling equipment 	<ul style="list-style-type: none"> Excellent thermal stability Excellent resistance to water Superior extreme pressure characteristics * 	220 to 460	NSF H1
NEVASTANE CHAIN OIL XT	Synthetic chain oil	<ul style="list-style-type: none"> Conveyor belts Oven chains Mechanisms that operate at high temperatures 	<ul style="list-style-type: none"> Impressive thermal stability Low volatility High lubricating power 	220	NSF H1 Kosher Halal

* Not miscible with other mineral and synthetic oils



Aerosols

	Type	Applications	Specific advantages	Range of use	Specifications
NEVASTANE LUBE AEROSOL	Multipurpose adhesive oil	<ul style="list-style-type: none"> Small machines requiring almost daily lubrication Conveyors and rails Packaging machines 	<ul style="list-style-type: none"> Exceptional adhesion to metal surfaces Resistant to water, steam and weak acid and alkaline atmospheres 	-20 °C to +150 °C	NSF H1
NEVASTANE GREASE AEROSOL	Water resistant grease	<ul style="list-style-type: none"> Bearings, hinges, springs, chains, rails and tools 	<ul style="list-style-type: none"> Excellent resistance to water and steam Exceptional adhesion to metal surfaces Insensitive to detergents 	-20 °C to +150 °C	NSF H1
NEVASTANE SILICONE SAFEGARD	Silicone oil	<ul style="list-style-type: none"> Small machines and chains subject to extreme temperatures Shrink oven chains Conveyers and rails 	<ul style="list-style-type: none"> 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

PROCESSING APPLICATION



Greases

	Type	Applications	Specific advantages	NLGI grade	Thickener	Range of use	Specifications
AXA GR 1	Multipurpose grease	<ul style="list-style-type: none">Bearings and jointsPelleting machines	<ul style="list-style-type: none">Effective in damp environmentsHighly adhesive	1/2	Complex calcium	-20 °C to +150 °C	NSF H1 Kosher Halal
NEVASTANE XMF *	Multipurpose grease	<ul style="list-style-type: none">Roller and plain bearingsCrimping machines	<ul style="list-style-type: none">Excellent corrosion protectionWater-resistant	00 0 1 2	Complex Al	-20 °C to +150 °C	NSF H1 Kosher Halal
NEVASTANE HD2T	Multi purpose extreme pressure, tacky grease with PTFE	<ul style="list-style-type: none">Loaded bearings even in the presence of waterBottling machines	<ul style="list-style-type: none">Exceptional adhesion to metal surfacesExcellent resistance to water washoutSuperior extreme pressure characteristics	2	Complex Al	-20 °C to +150 °C	NSF H1 Kosher Halal
NEVASTANE XS 80 **	High-performance 100% synthetic grease	<ul style="list-style-type: none">Bearings under high or low temperaturesOven turbinesSterilisersFreezing tunnels	<ul style="list-style-type: none">Very wide temperature rangeExcellent resistance to waterLonger lubrication intervals	1/2	Complex Ca sulfonate	-55 °C to +160 °C	NSF H1 Kosher Halal
NEVASTANE XS 320	High-performance 100% synthetic grease	<ul style="list-style-type: none">Bearings under loads and subject to shocksPelleting machines	<ul style="list-style-type: none">Wide temperature rangeExcellent load resistance, even in the presence of waterLonger lubrication intervals	1/2	Complex Ca sulfonate	-30 °C to +160 °C	NSF H1 Kosher Halal

* Available in Lube Shuttle

** Available in Greasyvat



Specific products

	Type	Applications	Specific advantages	ISO VG	Specifications
NEVASTANE FLUSH OIL	Light viscosity fluid for cleaning and flushing	<ul style="list-style-type: none">Cleaning or flushing of hydraulics, gear reducers, chains and other moving components	<ul style="list-style-type: none">Elimination of deposits and impuritiesExcellent solvent powerIdeal for changing from standard lubricant to NSF H1 lubricant (except PAG and MPG)	9,5	NSF H1 Kosher Halal
NEVASTANE SDO	Sugar dissolving oil	<ul style="list-style-type: none">Dissolves sugar accumulated on equipment in production and packaging areasApplication in pure or diluted form	<ul style="list-style-type: none">Excellent for dissolving accumulated sugar on machine partsReduction of maintenance costs and shutdowns	-	NSF H1 Kosher
NEVASTANE ANTIFREEZE	MPG based antifreeze	<ul style="list-style-type: none">Cooling circuits, including drinks, ice creams and frozen food processing	<ul style="list-style-type: none">Specific protection of alloys and metal equipment against corrosion	-	NSF HT1
NEVASTANE HTF	White oil based heat transfer fluid	<ul style="list-style-type: none">Closed heat transfer circuits, airlessA large number of fabrication processes: double-boilers, autoclaves, reactors, ovens, presses and moulds	<ul style="list-style-type: none">Exceptional resistance to temperatureProcess temperature <300 °C (330 °C in the oil film)Long service life under severe conditions of use	32	NSF H1 Kosher Halal



Value-added services: we provide you support

Now more than ever, industrial companies are convinced of the need to use NSF H1 lubricants, but many wonder how they should be implemented and used in the various processing areas.

We can guide you through the entire conversion process helping to achieve your food safety objectives while reducing your production costs through continuous optimization.



Diagnose the risks of lubricant contamination

In the framework of their HACCP* programs, all food processing plants have to control the risk of contamination of their products. Our technical managers will help you to perform your lubrication diagnostics on site:

- **identify** all critical lubrication points,
- **select** the appropriate NEVASTANE product to meet the performance requirements of your applications,
- **ensure** that all conversion and implementation is performed correctly.

*HACCP: Hazard Analysis Critical Control Points

Optimize your maintenance with the TIG XP5 FOOD software



Total Lubrifiants has developed the TIG XP5 FOOD software to manage the lubrication and maintenance of your facilities. TIG XP5 FOOD helps you to:

- **plan** preventive maintenance operations,
- **manage** oil analyses and predictive maintenance,
- **control** critical lubrication points in the framework of the HACCP procedure,
- **reference** the documents and certificates required for food safety audits.

Monitor your equipment through in-service oils analysis



The expertise of our laboratories enables, through sampling of in-service oils, to:

- **monitor** the mechanical condition of your machines without dismantling or shutdown,
- **reduce** operating costs by decreasing breakdowns and production stops,
- **lengthen** oil drain intervals.

Train your teams

Total Lubrifiants offers training sessions dedicated to your sector of activity, on controlling lubrication, safety and the environment. A lubricant used under the best conditions enhances the performance and the equipment life cycle, securing your facilities, and protecting human health and the environment.

5 good reasons to choose NEVASTANE

A major player

NEVASTANE is the brand of Total Lubrifiants products dedicated to the food processing industries. Total Lubrifiants is a subsidiary of Total Group. The Group is the world's fifth largest publicly-traded integrated international oil and gas company* and employs more than 96,000 people on five continents. Total Lubrifiants manufactures and sells its lubricants in more than 150 countries.

Innovation

Major investment in R&D and close collaboration with food processing equipment manufacturers, allows us to formulate and test the products of the future. The use of our products provides a guarantee of optimal performance for your equipment that also takes into account health and environmental safety.

Local support and responsive logistics

Thanks to our local commercial and technical presence, we can respond to your specific needs. Our integrated organization, which includes our own production plants and logistics platform, ensures that we can supply products within the tightest deadlines.

Food safety

Total Lubrifiants ISO 21469 certification for the production of the NEVASTANE range is an additional guarantee of our long-term commitment to food safety.

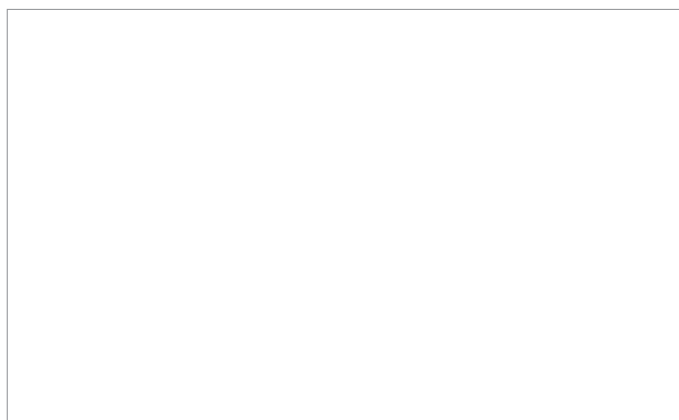
Partnership

By choosing NEVASTANE, you gain a partner that will stand by you to ensure the safety of your food production, while optimizing your productivity and maintenance costs. The wide variety of NEVASTANE products allows you to cover all your needs for maintenance and specialty lubricants. Join the many companies worldwide, from small businesses to multinational firms, that have already decided to partner with Total Lubrifiants!

* Based on market capitalization (in dollars) as of December 31, 2012

NSF registration certificates available at www.nsf.com

Material Safety Data Sheets available at www.quickfds.com



www.lubricants.total.com
www.nevastane.com



The right choice in lubricants

TOTAL