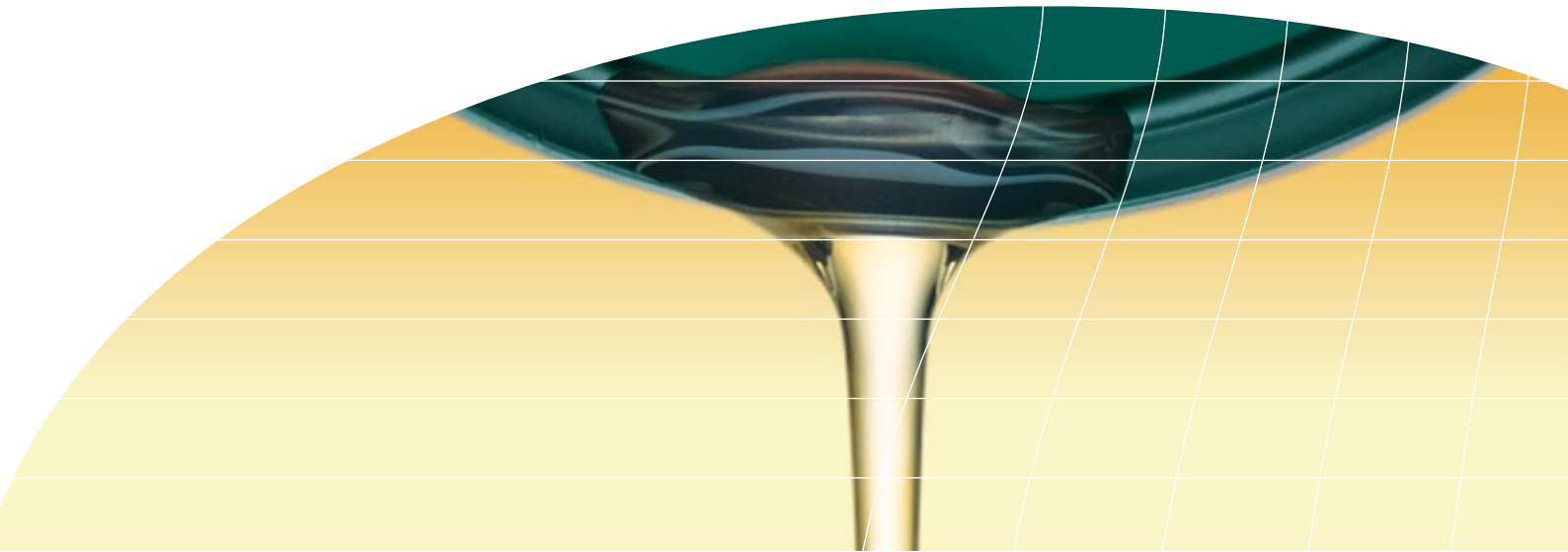


Food processing industry

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 Lubrificants 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 NEVASTANE lubricant for every application and situation!

Efficient in every food processing application, the NEVASTANE range protects your equipment while extending its service life under the most difficult conditions: wide ranges of temperature, water and food exposure...

■ NEVASTANE guarantees at a glance

- registered NSF H1
- contain no compound of animal origin
- GMO free
- allergen free



■ A guarantee of additional safety: ISO 21469 certification

This voluntary certification demonstrates the commitment of Total Lubrificants to provide you a maximum number of guarantees.

Our food grade lubricant production plants are audited by an independent organisation that verifies that our production process and finished products meet or exceed the requirements of ISO 21469 certification.

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.



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 ISO 6743-4 HM
NEVASTANE SL (32 to 100)	Hydraulic, compressor and pneumatic oils Synthetic PAO	<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 	32 to 100	NSF H1 Kosher Halal ISO 6743-4 HV
NEVASTANE EP	Gear oil based on white medicinal 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 1000	NSF H1 Kosher Halal ISO 6743-6 CKC
NEVASTANE SL (150 to 460)	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 ISO 6743-6 CKC
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 <p><i>NB: Not miscible with other mineral and synthetic oils</i></p>	220 to 460	NSF H1 Kosher
NEVASTANE CHAIN OIL XT	Chain oil Synthetic	<ul style="list-style-type: none"> Transport chains Oven chains Mechanism operating under high temperature conditions 	<ul style="list-style-type: none"> Outstanding thermal stability Low volatility High lubricity performances 	220	NSF H1 Kosher



Aerosols

	Type	Applications	Specific advantages	Range of use	Specifications
NEVASTANE LUBE AEROSOL	Multi purpose 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

FOOD PROCESSING APPLICATION



Greases

	Type	Applications	Specific advantages	NLGI Grade	Thickener	Range of use	Specifications
NEVASTANE HT/AW	Multi purpose grease	<ul style="list-style-type: none"> • Roller and plain bearings • Crimping machines 	<ul style="list-style-type: none"> • Excellent protection against corrosion • Resistance to water 	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 water • Bottling machines 	<ul style="list-style-type: none"> • Exceptional adhesion to metal surfaces • Excellent resistance to water washout • Superior extreme pressure characteristics 	2	Complex Al	-20 °C to +150 °C	NSF H1 Kosher Halal
NEVASTANE HPX	High performance extreme pressure grease	<ul style="list-style-type: none"> • Bearings under loads and subject to shocks • Pelleting machines 	<ul style="list-style-type: none"> • Wide temperature range • Excellent resistance to water • Superior extreme pressure characteristics 	1/2	Complex Ca sulfonate	-25 °C to +180 °C	NSF H1
NEVASTANE SFG	Synthetic grease adapted to a wide range of temperatures	<ul style="list-style-type: none"> • Bearings under high and low temperatures • Sterilizers • Bearings in ovens • Freezing tunnels 	<ul style="list-style-type: none"> • Very wide temperature range • Excellent resistance to water • Significant extension of lubrication intervals 	1 2	Complex Ca sulfonate	-40 °C to +180 °C	NSF H1 Kosher



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 impurities • Excellent solvent power • Ideal for changing from standard lubricant to NSF H1 lubricant (except PAG and MPG) 	9,5	NSF H1 Kosher
NEVASTANE SDO	Sugar dissolving oil	<ul style="list-style-type: none"> • Dissolves sugar accumulated on equipment in production and packaging areas • Application in pure or diluted form 	<ul style="list-style-type: none"> • Excellent for dissolving accumulated sugar on machine parts • Reduction 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, airless • A large number of fabrication processes: double-boilers, autoclaves, reactors, ovens, presses and moulds 	<ul style="list-style-type: none"> • Exceptional resistance to temperature • Process temperature <300 °C (330 °C in the oil film) • Long service life under severe conditions of use 	32	NSF HT1 ISO 6743-12 L-QB

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.

4 reasons to choose NEVASTANE

A major player

Total Lubrificants is a subsidiary of Total. The Group is the world's fifth largest integrated oil and gas company* and employs more than 92,000 people on five continents. NEVASTANE is the brand of lubricants dedicated to the food processing industries.

Innovation

With its major investments in R&D and close collaboration with food processing equipment manufacturers, Total Lubrificants has developed its cutting edge, value added NEVASTANE products, and is constantly researching to satisfy your future needs.

Food safety

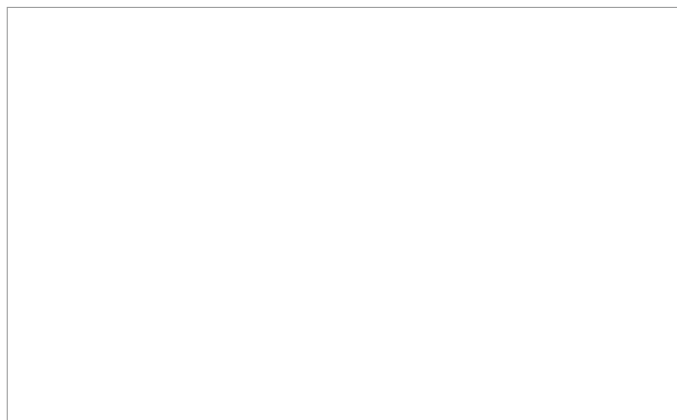
Total Lubrificants' ISO 21469 certification for the production of the NEVASTANE range is an additional guarantee of our long term commitment to food safety.

Partnership

When choosing NEVASTANE, you know you have found a partner that will stand by you to ensure the safety of your food production while optimizing your productivity and maintenance costs. The large variety of NEVASTANE ranges allows you to cover all your needs for maintenance and specialty lubricants.

**based on market capitalization in dollars at december 31, 2010.*

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