

## Certification according to NSF ISO 21469 for more product reliability

### Comprehensive protection

The NSF ISO 21469 certification programme encompasses the entire life cycle of an NSF H1 lubricant including its formulation, manufacture, filling, storage, packaging and use.

- Klüber Lubrication continue to have their lubricant ingredients registered according to NSF H1, which also ensures compliance with FDA 21 CFR 178.3570.
- Manufacture and filling of NSF H1 lubricants are carried out according to strict hygiene standards.
- Klüber Lubrication also attaches great importance to the reliability of lubricant packaging, using, for example, special tubes with re-closable nozzles for exact and clean grease application or plastic canisters with easy pourout spout and filling-level indicator.
- To help you optimise your lubrication management, Klüber Lubrication have developed a service programme named KlüberMaintain, providing professional solutions for producers of food and pharmaceutical products regarding hygiene requirements in storage, use and labelling according to NSF ISO 21469.

## Keeping one step ahead with Klüber Lubrication

- Klüber Lubrication NSF H1 speciality lubricants increase productivity and reliability while ensuring economical machine operation. Lubricant quantities can often be reduced due to our lubricants' high performance level.
- We work in close cooperation with machinery OEMs and develop lubrication solutions tailored to the respective lubrication points.
- Klüber Lubrication is a competent and reliable service partner.
- The combination of KlüberMaintain service and our NSF H1 lubricant range ensures optimum functionality and long machinery lifetime.
- You benefit from our innovation management and new product developments.
- With about 2,000 employees, Klüber Lubrication are able to offer technical support in more than 30 countries and globally available products.

F11001002 / Edition 05.16, replaces 09.14  
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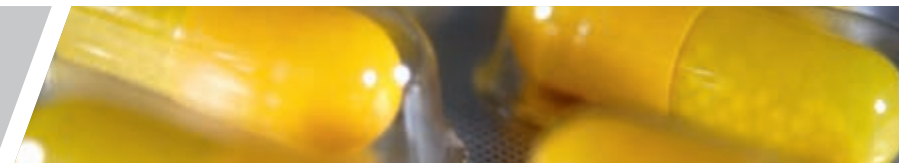
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your global specialist

## NSF ISO 21469.

International standard for lubricants in the food-processing and pharmaceutical industries





## ISO 21469:2006 – Safety of machinery – lubricants with incidental product contact – hygiene requirements

### The new requirements at a glance:

- Scope of requirements for lubricants with incidental product contact (H1 lubricants) extended from food to include also cosmetic products, pharmaceuticals, tobacco and animal feed.
- Binding hygiene requirements regarding the formulation, manufacture, storage and use of H1 lubricants.
- Lubricant manufacturers are required to develop a hygiene strategy including risk assessment of manufacturing processes.
- Users of H1 lubricants must be informed about hygiene requirements for use.

### Why a new standard?

Requirements regarding the reliability of manufacturing processes in the food-processing and pharmaceutical industries are more stringent than ever. The use of operational supplies like compressed air, lubricants, disinfectants or release agents is also subject to strict rules and regulations.

The main objective is to detect possible sources of risk at an early stage and to avoid errors. A key factor is the use of approved materials as a part of effective product safety and quality management.

An international standard regarding H1 lubricants in the food-processing and pharmaceutical industries was therefore required. In 2006, the ISO Committee for 'lubricants with incidental product contact' published the standard: **ISO 21469:2006 – Safety of machinery – Lubricants with incidental product contact – Hygiene requirements.**

While the previous standard EN 1672-2:2005, which specifies common hygiene requirements for machinery used in preparing and processing food, only requires the use of suitable, so called "food-grade" lubricants (H1 lubricants), ISO 21469 provides a detailed lubricant definition and requires the use of such lubricants for incidental contact with food products, cosmetics, pharmaceuticals, tobacco and animal feeds.

### The clean solution for high requirements

ISO 21469 defines hygiene requirements for the formulation, manufacture and use of lubricants which can have incidental product contact where this is technically unavoidable. A typical application is for example a gear box above a conveyor transporting a food product. If the seal fails, the lubricant can potentially leak onto the food product.

Lubricant manufacturers must develop a hygiene strategy, taking into account any chemical risks (e.g. cleansing agents, non-approved raw materials), physical risks (foreign substances, e.g. from machinery) and biological risks (e.g. pathogens, toxins, vermin) related to the intended use of the lubricant.

On the basis of ISO 21469, the NSF (National Sanitation Foundation), a globally renowned institute providing a comprehensive certification programme for drinking water and food-processing applications, developed a certification process.

Currently, certification according to the NSF ISO 21469 certification programme is the most demanding and comprehensive certification of H1 lubricants. Klüber Lubrication deliberately chose the independent NSF institute as it stands for particularly high competence regarding certifications for the food-processing and drinking water industries.