your global specialist

Enhanced process reliability - enhanced transparency.

Lubricating tablet presses in line with FDA requirements
**Manufacturing according to GMP**

In the pharmaceutical industry, manufacturing according to GMP standards (Good Manufacturing Practice) is routine. Companies producing and marketing pharmaceuticals must ensure that the quality is consistent across the entire production chain. Supervisory authorities are performing more and more audits to ensure this consistency.

If, in an audit, you want to prove compliance with GMP guidelines, you need to have certified lubricants. We have therefore developed special lubricants for the pharmaceutical industry which are registered by the National Sanitary Foundation (NSF) as H1 products.

And the manufacturing plants we use for H1 lubricants are certified according to the international standard ISO 21469.

With NSF H1 lubricants made by Klüber Lubrication you are on the safe side in any audit!

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**Lubricating tablet presses**

**Requirements to be met by the lubricant**
- FDA-compliant
- NSF H1 registered
- Certified according to NSF ISO 21469-Halal-Kosher
- Good wear protection
- No blackening of bronze guides and therefore no contamination with dark particles
- Tested compatibility with elastomer seals on scrapers
- OEM approval

**Solution**
- Klüberpharma UH1 4-220
- Klüberpharma UH1 4-460

**Your benefit**

**Wear protection of punches**

- Friction points: (1) Punch head / thrust roller
- (2) Punch head / guide

The right oil viscosity is key! High surface pressure in the friction point punch head / thrust roller would normally require a high oil viscosity. As the oil is also in the punch fit as well, wear in the fit may increase after the pressing procedure. Medium oil viscosity should therefore be preferred.

When selecting the oil viscosity, the OEM’s recommendations should be taken as a basis as the backlash of punch and fit varies from OEM to OEM.

The medium viscosities of Klüberpharma UH1 4-220 and Klüberpharma UH1 4-460 have shown the best results in most applications.

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**Our NSF H1-registered lubricant range also contains the right, FDA-compliant solution for all other machine parts (e.g. hydraulics, gears, rolling bearings, etc.).**
Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high performance lubricants for more than 80 years.