



Maximize gear and bearing life in food processing equipment

Reduce maintenance and repair costs with next-generation mPAO food grade oil

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Klübersynth NH1 4 N Series: Customer Benefits

Applying **Klübersynth NH1 4 N Series** oils in food-processing allows for superior protection of gears and bearings, thus extending service life, lowering maintenance costs and improving availability of the equipment.

Properties of **Klübersynth NH1 4 N Series** oils include:

- Increased reliability due to low foaming tendency and good elastomer compatibility
- Good wear protection for gears and rolling bearings
- High scuffing protection
- Excellent viscosity-temperature behavior for expanded service temperature range (-60°C to 140°C)
- Excellent aging and oxidation resistance
- Good shear stability for reliable lubricant film formation
- Energy savings due to optimized friction behavior
- ISO VG 32 to 680
- Registered as NSF H1

Klübersynth NH1 4 Series meets and exceeds the most important tests required for this application, such as FZG and FE8.

Static elastomer compatibility

Freudenberg seals made of 72 NBR 902, 75 FKM 585, and 75 FKM 170055 are statically and dynamically resistant to **Klübersynth NH1 4 N Series**, preventing leakage and oil contamination.

| Elastomer | Temperature [°C] | Length [h] | |
|---------------|------------------|------------|---------|
| SRE-NBR 28/SX | 100 | 168 | CLP |
| 72 NBR 902 | 95 | 1008 | Flender |
| 75 FKM 585 | 110 oder 130 | 1008 | Flender |
| 75 FKM 260466 | 110 oder 130 | 1008 | Flender |

Klübersynth NH1 4 N Series



Superior scuffing protection

Klübersynth NH1 4 N Series offers high scuffing load capacity. Gears are sufficiently protected against scuffing even at extremely high peak loads, vibration or oscillations. The good wear protection of both gears and rolling bearings enables the service life calculated for the lubricated components to be achieved, leading to lower maintenance and repair costs.

The following chart illustrates how **Klübersynth NH1 4 N Series** not only outperforms competitors, but surpasses CLP.

Klübersynth NH1 4 N Series

Bearing protection acc. *DIN ISO 51819-3* (FE8)

