Your reliable partner for textile machinery

Klübertemp GR AR 555 - For high temperature applications
A single product for increased reliability of your high temperature applications

In modern textile manufacturing, equipment reliability and minimum downtime are critical. The high capital investment in this equipment also makes it important to maximize the longevity of these machines. In order to achieve this, using the right lubricant is imperative. To support you in this endeavour, we offer you our top of the line high temperature grease, Klübertemp GR AR 555. This PFPE/PTFE grease assures long re-lubrication cycles and high productivity of your plant even at elevated temperatures.

This product provides the perfect solution for the following requirements in your plant:
- Stenter chain lubrication
- Godet bearings
- Rolling bearings of fans and motors in hot zones
- Bearings of steamers
- Compensator and rollers in the hot flue
- Steam headers

Klübertemp GR AR 555

Developed by taking into account your challenges and special requirements, Klübertemp GR AR 555 is the right lubricant for high temperature applications in the textile industry. This can support you in achieving
- High temperature resistance
- High-performance corrosion protection
- High chemical resistance
- Broad usage temperature range
- Low evaporation rate
- Minimal maintenance costs due to
- Longer service life

### High temperature textile applications

#### Stenter Chains

The finishing of different kinds of textiles in the same stenter machine will need the stenter to be operated at varying speeds and at different loads. This can have an adverse impact on the stenter chain by causing chain elongation and leading to a reduced chain life. The maximum operating temperature of 240 °C and the presence of steam also makes it a conducive atmosphere for corrosion. Such application demands a lubricant that provides good corrosion protection, low carbon formation, longer lubrication interval and has a wide temperature range.

Using Klübertemp GR AR 555 ensures smooth transition in operating conditions without any damage to the chain. With Klübertemp GR AR 555, you will be able to get an increased chain life due to its good wear and anticorrosive properties. This PFPE product will also lead to a lower lubricant consumption resulting in reduced costs. Being an NSF H1 certified product, it also complies to the stringent health and hygiene requirements. All things considered, Klübertemp GR AR 555 is your reliable partner helping you get the best out of your stenter.

### Product data

<table>
<thead>
<tr>
<th>Product data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical composition, oil type</td>
<td>PFPE</td>
</tr>
<tr>
<td>Chemical composition, solid lubricant</td>
<td>PTFE</td>
</tr>
<tr>
<td>Lower service temperature</td>
<td>-20 °C</td>
</tr>
<tr>
<td>Upper service temperature</td>
<td>250 °C</td>
</tr>
<tr>
<td>Colour space</td>
<td>White</td>
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<tr>
<td>Texture</td>
<td>Homogeneous</td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>Approx. 1.9 g/cm³</td>
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<tr>
<td>NLGI grade, DIN 51818</td>
<td>2</td>
</tr>
<tr>
<td>Kinematic viscosity of the base oil at 40 °C</td>
<td>Approx. 420 mm²/s</td>
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</tbody>
</table>
Godet bearings
The varying temperatures and demanding conditions of this application makes it extremely critical to have the right lubricant for an uninterrupted operation. Klübertemp GR AR 555 with its wide service temperature is an ideal product for this application.

Steamers
High temperature and the presence of moisture makes for a highly corrosive environment. The lubricant used for this application should withstand aggressive media, steam and high temperatures. Klübertemp GR AR 555 fulfils these requirements and provides you with uninterrupted operation.

Compensator and rollers in the hot flue
Characterised by the high temperature, the application demands a grease that can go up to 250 degree celsius. It should also also resist chemicals and vapours. It is precisely these conditions which make Klübertemp GR AR 555 suitable for this application.

Bearings of electric motors and fans
The numerous electrical motors and fans located in the hot zones of the textile finishing unit need a speciality bearing grease for safe and reliable operation. When it comes to reliability at high temperatures, Klübertemp GR AR 555 being a PFPE/PTFE product, provides the perfect solution.

Steam headers/ Rotary couplings
Compatibility with seals, high temperature and aggressive media are the three factors to be considered while selecting a lubricant for this application. Klübertemp GR AR 555, being a chemically inert high temperature lubricant is the right choice for high performance in these conditions.

All your requirements at a glance

- Temperature up to 250 °C
- Low to medium speed
- Longer relubrication interval
- Resistance to corrosion in presence of steam heating
- Low carbon formation
- High resistance to aggressive media
- Minimum chain elongation and maximum life

Our solution - Klübertemp GR AR 555
One product for all high temperature requirements

Keeping the varying demands of the above listed high temperature applications, Klübertemp GR AR 555 is the one stop solution which meets all your requirements. Having a single lubricant also eliminates the possibility of applying the wrong lubricant and helps you keep your inventory low.

With Klübertemp GR AR 555 as your partner for high temperature applications, you can get the following benefits:

- Smooth and reliable operation
- More production as downtime will be less
- Reduced costs with lower lubricant consumption
- Lower maintenance costs due to reduced downtime
- Long-term lubrication with high resistance to chemicals and steam
- NSF H1 approved – complying to stringent health and hygiene requirements
- Higher savings due to increased component life
- Higher operational safety
- Reduced contamination risks
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 for efficient high-performance lubricants for more than 80 years.