



Quality, service, and customer satisfaction is our driving force.



## AFRIQ SHCT GREASE 460

### DESCRIPTION

**Afriq SHCT Grease 460** is superior performance grease is designed specifically for severe paper machine applications, including extreme temperature environments and exposure to different qualities of water. **Afriq SHCT Grease 460** combine the unique features of a synthetic base fluid with those of a high quality lithium complex thickener.

Also:

- The wax-free nature of the synthetic base fluid provides excellent low temperature pump ability and low starting and running torque compared to other non-synthetic oil products of the same viscosity.
- The high viscosity index of the synthetic base fluid ensures excellent film protection at high temperatures.
- The lithium complex thickener contributes excellent adhesion, structural stability and resistance to water.

These properties are complemented by a special additive system to provide:

- rust and corrosion resistance,
- wear protection,
- thermal/oxidative resistance and
- to enhance water resistance properties.

**Afriq SHCT Grease 460** is a NLGI grade 1.5 with base fluid of ISO VG 460.

**Afriq SHCT Grease 460** is designed for use in the most critical rolling element bearing applications in paper machines. They provide outstanding protection against rust and typical acid and alkali water corrosion, making them ideal for the wet end of the paper machine. The low volatility and excellent oxidation stability of the PAO base stock ensures excellent service at high temperatures typical of dry end conditions.

**Afriq SHCT Grease 460** has become the technology of choice for many paper mill operators, worldwide. Its reputation is based on exceptional quality, reliability and the proven performance benefits they deliver.

### BENEFITS

**Afriq SHCT Grease 460** symbolizes our continued commitment to using advanced technology to provide outstanding products. **Afriq SHCT Grease 460** is recognized and appreciated for their innovation and outstanding performance. A key factor in the development of **Afriq SHCT Grease** was the close contacts between our scientists and application specialists with key paper machine designers to ensure that our product offerings would provide exceptional performance in this continually evolving, and increasingly severe, equipment area.

Our work with equipment builders has helped confirm the results from our own laboratory tests showing the exceptional performance of the **Afriq SHCT Grease 460**.



These benefits include:

- excellent resistance to acidic and alkaline water,
- enhanced bearing protection and bearing life,
- wide temperature range of application,
- and longer grease life.

To combat high thermal exposure our product formulation scientists chose proprietary synthetic base oils for **Afriq SHCT Grease 460** because of their exceptional thermal and oxidative resistance. Our scientists developed a high performance lithium complex thickener technology and used specific additives to enhance **Afriq SHCT Grease 460** to meet the needs of modern and future paper machines. **Afriq SHCT Grease 460** offer the following features and benefits:

#### FEATURES:

- Outstanding high temperature and low temperature performance
- Excellent protection against wear, rust and corrosion, including acidic water
- Excellent structural stability and oxidation resistance
- Excellent wear protection under heavy loads, slow speeds, and high temperatures
- Outstanding structural stability in the presence of water

#### BENEFITS:

- Wide application temperature range, from -40°C to 150°C with excellent protection at high temperatures and low torque, easy start-up at low temperatures
- Reduced downtime and maintenance costs because of reduced wear, rust and corrosion even in acidic and alkaline water environments
- Extended service life with longer intervals between re-lubrication and improved bearing life
- Outstanding protection of slow speed, heavily loaded bearings, with extended bearing life
- Retains excellent grease performance in hostile aqueous environments
- Helps resist viscosity increase at high temperatures to maximize re-lubrication intervals and bearing life

#### APPLICATIONS

While **Afriq SHCT Grease 460** is compatible with most mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to **Afriq SHCT Grease 460**, it should be thoroughly cleaned out to achieve the maximum performance benefits. If dismantling the system for cleaning before changeover isn't feasible, then thorough purging and increased re-lubrication intervals are strongly recommended.

**Afriq SHCT Grease 460** is recommended for critical rolling element bearing applications in paper machines.

Included among these are:

- Highly loaded press section bearings.
- High-temperature felt roll and calendar stack bearings
- Wet end paper machine bearings



## SPECIFICATIONS AND APPROVALS

Afriq SHCT Grease 460 meets or exceeds the requirements of:

- DIN 51825: (2004-06)
- KPHC1-2N-40

## TYPICAL PHYSICAL CHARACTERISTICS

Thickener Type	Lithium Complex
Color, Visual	Off-White
Penetration, Worked, 25° C, ASTM D 217	305
Dropping Point, °C, ASTM D 2265	275
NLGI Grade	1.5
Viscosity of Oil, ASTM D 445, cSt @ 40° C	460
4-Ball Wear, ASTM D 2266, Scar, mm	0.5
4-Ball Weld Load, ASTM D 2596, kg	250
Timken OK Load, ASTM D 2509, lbs	65
Roll Stability, ASTM D 1831, % Change	-5 to +5
Water Washout, ASTM D 1264, 79° C, % Loss	3
Rust Test, ASTM D 1743, Rating	PASS
Copper Corrosion, ASTM D 4048, Rating	1A
Oil Separation, ASTM D 1742, 0.25 psi, 24 hours @ 25° C, % Wt. Loss	3
EMCOR Rust Test, ASTM D 6138, Distilled Water, Rating	0/0
EMCOR Rust Test, ASTM D 6138, Acid Water pH 4.5, Rating	0/0
EMCOR Rust Test, ASTM D 6138, Alkaline Water pH 12.0, Rating	0/0