

# ActiveLube™ Solid Lubrication

In some applications, the use of grease or oil to lubricate the bearing may not be the best choice. Solid lubrication can offer an alternative to conventional lubricants in applications such as the food and beverage industry, textile and agricultural machinery and anywhere bearings are used in moist, dirty environments.

HQW Precision has developed ActiveLube™, a solid lubricant which fills the whole free space inside a roller bearing. Its open-pored plastic polymer matrix contains up to 65% lubricant, approximately two to three times the amount of grease which would be used in conventional lubrication.

The polymer surrounds the cage and the rolling element and caters for the direct lubrication of the rolling bodies. At the same time there is a small gap between the contact bodies so that low friction running can be assured.

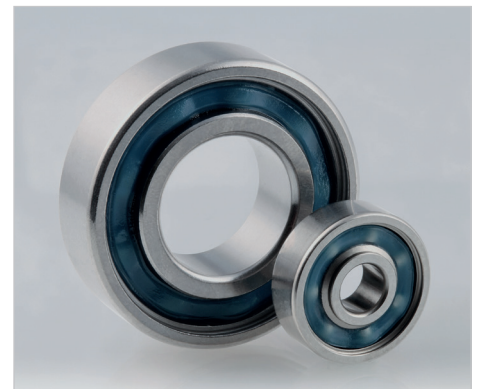
As the free space in the bearing is filled with a water repellent polymer, there is a high resistance against liquids or dirt trying to enter the bearing. The lubricant is set free under load and ensures smooth running. During downtime the oil is collected by the polymer in a sponge-like fashion.

### Temperature Range

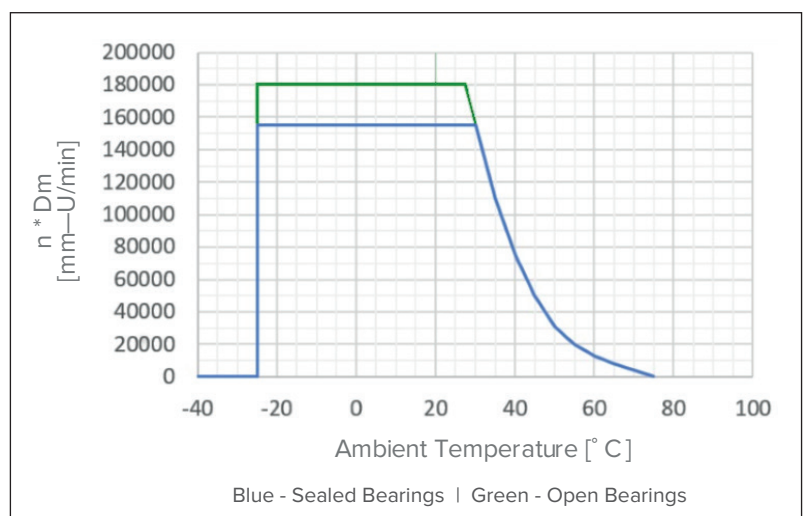
ActiveLube™ is designed to operate at a temperature range of -25°C to 60°C and up to 80°C for low speeds. As such, bearings should not be heated to more than 100°C as the polymer will be damaged.

### ActiveLube Advantages:

- Significantly higher lubrication volumes.
- Lifetime lubrication.
- Low maintenance requirements.
- Protects bearing raceways from contamination.
- Suitable for extreme or challenging environments.



ActiveLube™ Bearings



Speed/Temperature range of ActiveLube bearings

[www.hqw.gmbh](http://www.hqw.gmbh)

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