# BLUE OCEAN CLOSURES

# A New Standard in Packaging Performance

STORAGE STABILITY OF FIBER-BASED CLOSURES FROM BLUE OCEAN CLOSURES

Blue Ocean Closures develops fiber closures that are designed for real-world conditions. Storage stability is critical for both product quality and operational reliability. Our latest trials confirm exceptional resilience over time, even in uncontrolled environments.

## **Real-World Warehouse Testing**

Closures were packaged according to standard procedures and stored in non-climate-controlled warehouses. Samples were taken for testing monthly up to 6 months – ongoing quarterly to one year.

## **Key Findings:**

Property	Result (0–6 months)
Torque Performance	Unchanged; consistent open/close resistance
Visual Integrity	No deformation, cracks, or surface changes
Shape Consistency (Ovality)	Very low; superior to many plastic caps
Outer Body Diameter	Stable; no measurable deviation
Headplate Thickness	No swelling/shrinkage; density remains intact

These results confirm the closures maintain full functionality throughout extended storage, supporting long shelf-life and logistical flexibility without material degradation.



## **Aging Without Compromise**

Closures are made from carefully selected high-density fibers, processed for structural precision and water stability. This composition enables dimensional durability without warping, shrinking, or torque loss. Key for reliable product protection over time.



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#### **Why Storage Stability Matters**

Storage environments often vary. Unregulated warehouse climates – for example cold climates where plastics may become brittle – are a stress test for packaging materials. Blue Ocean Closures' fiberbased caps show no such vulnerabilities.

Whether stored for weeks or months, customers can rely on:

- → Secure, consistent sealing force
- → Stable appearance and mechanical function
- → No compromise in cap performance at point-of-sale

## **Designed for Long-Term Confidence**

- Tested in realistic, industrial conditions
- → Performance validated through monthly sampling
- → No material fatigue, even under fluctuating humidity or temperature

These factors ensure the product meets quality standards not just on the production line – but all the way to the consumer.

### **Blue Ocean Closures**

- → Leading the shift toward fiber-based packaging technologies. Our closures are:
- → Fully recyclable in the paper stream
- → Made from FSC®-certified renewable materials
- → Food safe, ISO 22000 certified
- → Compatible with standard 38mm / 45mm necks and filling lines

Our solutions enable sustainability without sacrificing function. Storage performance is just one example of how fiber can match—and exceed—the reliability of traditional materials.



