

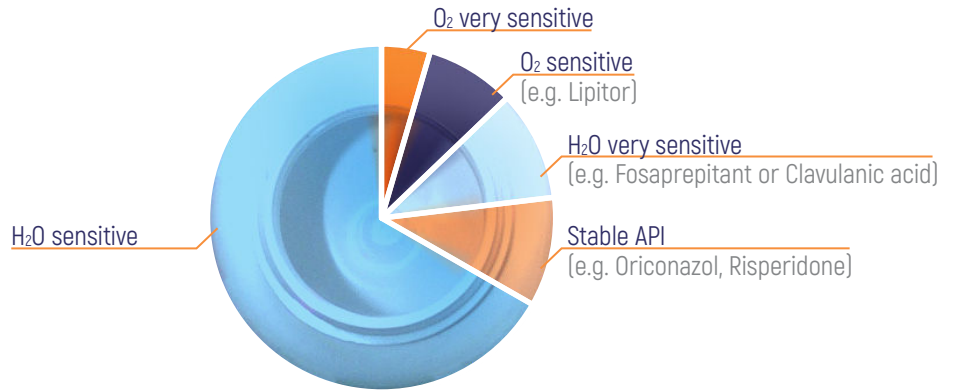


Pharma  
Primary  
Packaging

# Optimal moisture and/or oxygen protection Barrier Packaging Solutions

## What is the challenge?

up to **90%** of all APIs used in pharmaceutical formulations are **sensitive** to moisture and/or oxygen and require passive or active protection.



## LOG's market-leading solutions:



eco

## Redefining Barrier Packaging



OxyBlock®

Significantly reduces oxygen permeation



MonoBlock®

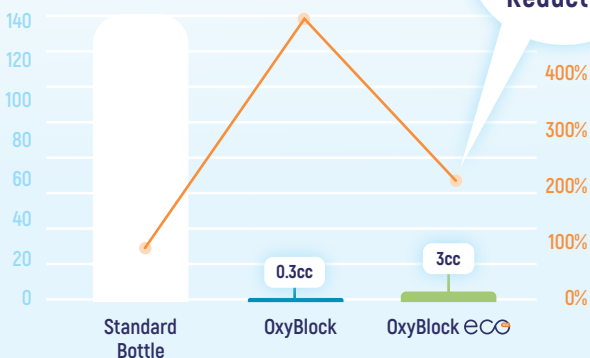
Significantly reduces moisture permeation



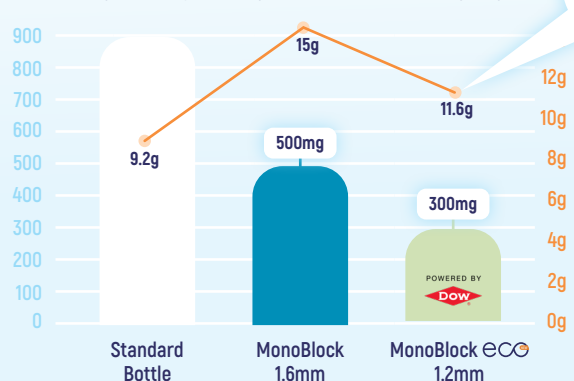
MultiBlock®

Significantly reduces both oxygen & moisture permeation

**OTR: Oxygen Transmission Rate in 2 years**  
Total O<sub>2</sub> ingress in 2 years (cc / bottle) and bottle cost (in %, compared to standard bottle)



**MVTR: Moisture Transmission Rate**  
Total H<sub>2</sub>O ingress in 2 years (mg / bottle) and bottle weight (g)



## For more information, please contact:

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eco **NEW**



Outer Layer HDPE

EVOH

Inner Layer HDPE

The Barrier **eco** Line is LOG's flagship pharmaceutical packaging platform—engineered to deliver top-tier performance, advanced protection, and a real environmental benefit. Developed with Dow-powered HEALTH+ pharma-grade resins, this next-generation barrier technology redefines what's possible in eco-conscious pharma packaging.

### Eco-Efficient Design

Delivers high-barrier protection in a lightweight, sustainable bottle that reduces material use and environmental impact.

### Moisture Barrier



Achieves up to 30% weight reduction without sacrificing WVTR or protective performance.

### Oxygen Barrier

Using an optimized multi-layer structure, we've achieved a cost reduction of over 50% without compromising barrier quality.

LOG has developed a portfolio of advanced barrier packaging solutions designed to protect both innovative and generic pharmaceuticals from moisture and oxygen exposure. Available in various technologies and formats for both liquids and solids, LOG's barrier packaging comes in standard sizes ranging from 15ml to 1500ml.

### LOG's market-leading Barrier Packaging solutions:

- ✓ Increase confidence to pass drug stability tests
- ✓ Shorten drug formulation development time
- ✓ The **eco line** allows the use of lightweight containers, contributing to a reduced carbon footprint
- ✓ Reduce the need for desiccants / oxygen scavengers
- ✓ Reduce the total cost of ownership
- ✓ Successfully used by global pharmaceutical companies

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