



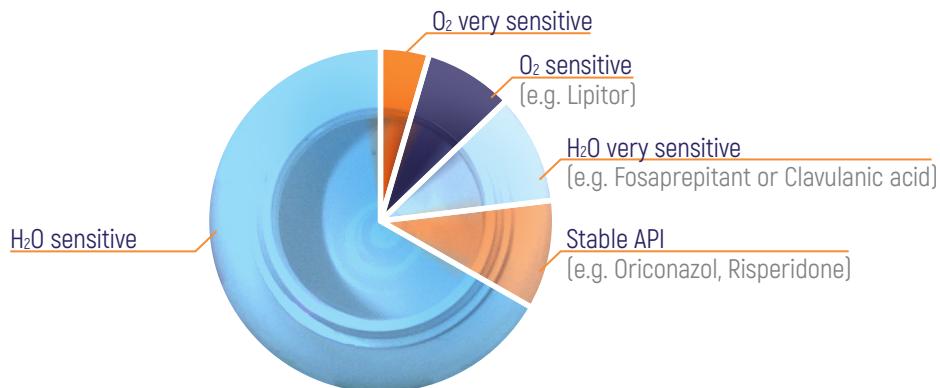
Pharma
Primary
Packaging

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.

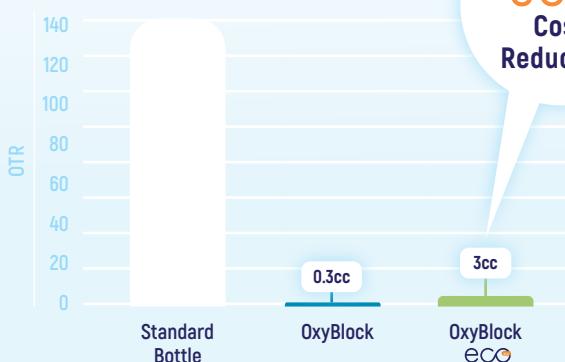


LOG's market-leading solutions:



Example of Oxygen Transmission Rate (OTR) Performance:

Total O₂ ingress in 2 years (cc / 60ml bottle)



up to
50%
Cost
Reduction

Redefining Barrier Packaging



OxyBlock[®]

Significantly reduces oxygen permeation



MonoBlock[®]

Significantly reduces moisture permeation

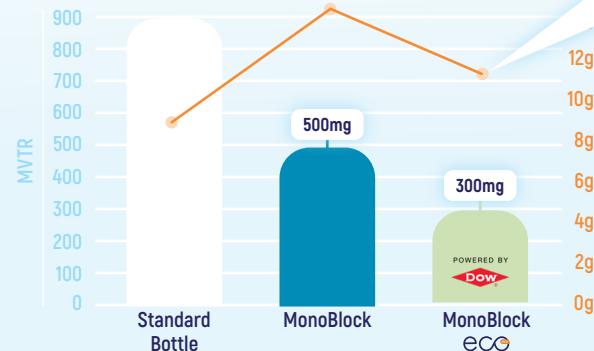


MultiBlock[®]

Significantly reduces both oxygen & moisture permeation

Example of Moisture Transmission Rate (MVTR) Performance:

Total H₂O ingress in 2 years ingress in 2 years (mg / 60ml bottle) and bottle weight (g)



up to
30%
Weight
Reduction

For more information, please contact:

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 Creating
confidence



Pharma
Primary
Packaging

Optimal moisture and/or oxygen protection Barrier Packaging Solutions



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 standard sizes ranging from 15 ml to 1500 ml.

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 MVTR or protective performance, while the MonoBlock series remains fully recyclable.

Oxygen Barrier

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

LOG's market-leading Barrier Packaging solutions:

- ✓ Increase confidence to pass drug stability tests
- ✓ Shorten drug formulation development time
- ✓ Reduce the need for desiccants / oxygen scavengers
- ✓ Successfully used by global pharmaceutical companies

For more information, please contact:

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