

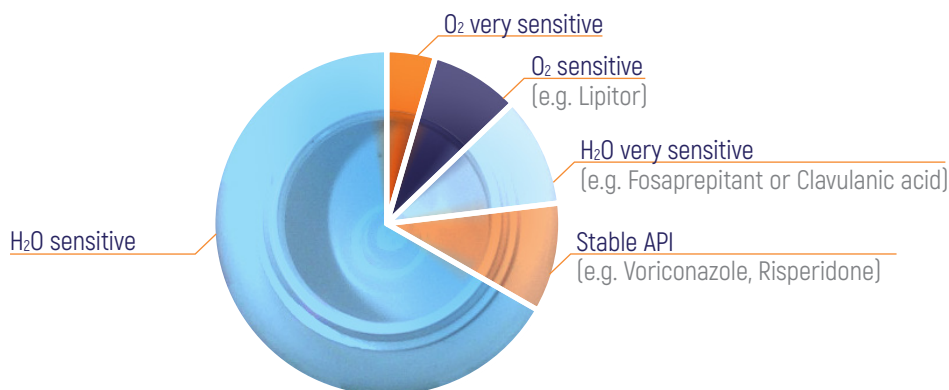


Pharma  
Primary  
Packaging

# 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 Barrier Packaging solutions:



**OxyBlock™**

Reduces oxygen permeation



**MonoBlock™**

Reduces moisture permeation

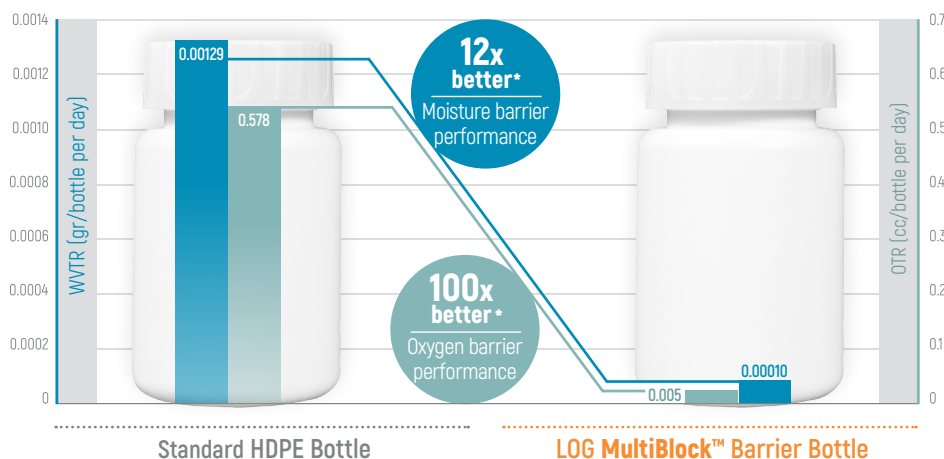


**MultiBlock™**

Reduces oxygen & moisture permeation

- Increase confidence to pass drug stability test
- Shorten drug formulation development time
- Reduce the need for desiccants with the goal of eliminating them
- Extend drug shelf life
- Reduce head space and packaging size
- Reduce total cost of ownership
- Are successfully used and endorsed by global pharmaceutical companies

**MultiBlock™** multilayer moisture and oxygen barrier container versus standard HDPE container



■ Oxygen Transmission Rate (OTR) - According to ASTM F-1307 23°C 50% RH

■ Water Vapor Transmission Rate (WVTR) - According to ASTM F-1249, ASTM E-96 38°C 90% RH

\*Compared to a standard HDPE container



LOG Pharma Packaging

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Creating  
confidence