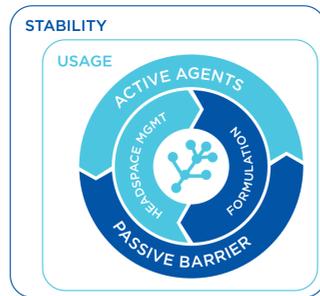


STABILITY FOR PHARMACEUTICALS

Moisture is the major pathway to drug degradation, affecting the pharmaceutical stability of many drug products. Active agents, along with a well-designed barrier, are part of a protective packaging system to provide active headspace management. Desiccant canisters are proven to effectively address hydrolytic degradation, helping to protect drugs during the entire shelf life period.



THE BENEFITS OF DESICCANT CANISTERS

When it comes to drop-in style sorbents, desiccant canisters provide several appealing benefits to pharmaceutical manufacturers and packagers.

- Efficiency due to high-speed insertion
- Versatility and flexibility - can be used on any desiccant canister insertion equipment
- Global availability and supply
- Robust construction and design to withstand the rigors of packaging and transport



HIGH-SPEED AUTOMATIC INSERTION 300-600 CPM

The smooth, rigid cylindrical shape allows for high-speed insertion of up to 300-600 canisters per minute. The uniformity allows for use on all standard or custom-built desiccant inserters.

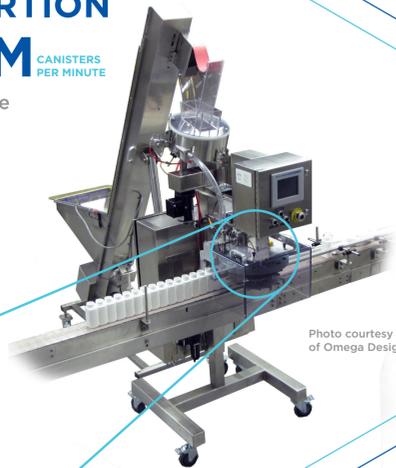


Photo courtesy of Omega Design

QUALITY BY DESIGN

CLNX
CLARIANT EXCELLENCE

- Operational Excellence
- LeanSigma
- Continuous Improvement



Clariant International Ltd



100% VISION SYSTEM

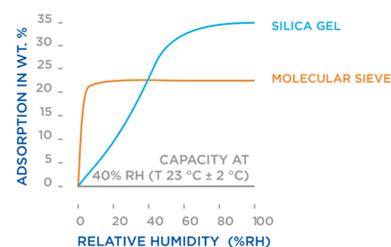


WEIGHT INSPECTION

1,000,000,000
YEARLY CAPACITY

VERSATILE SORBENTS

<p>SILICA GEL (Amorphous silicon dioxide) Moisture adsorption</p> 	<p>MOLECULAR SIEVE (Synthetic zeolite) Moisture adsorption</p> 
<p>GETTER (Activated carbon) Odor adsorption</p> 	<p>EQ-SG (Equilibrium sorbent) Desiccant + humectant</p> 
<p>2-IN-1 (Silica gel + activated carbon) Moisture + odor adsorption</p> 	<p>PharmaKeep® (Oxygen scavenger + desiccant) Humidity neutral O₂ absorption</p> 



SPECTRUM OF SOLUTIONS

Clariant manufactures a full range of protective packaging based on active agents, high-barrier copolymers and market-based functionality.

