

# EQUIUS<sup>®</sup>



**Colorcon<sup>®</sup>**

Working Together for a Healthier World

## Equilibrium Stabilizers for Relative Humidity Control

EQUIUS® Equilibrium RH Stabilizers are sorbent products that maintain humidity levels in pharmaceutical and nutraceutical packaging when specific relative humidity conditions are required.

An equilibrium sorbent performs like a humectant (desorber) and desiccant (adsorber) for applications requiring a specific equilibrium relative humidity (ERH) range inside product packaging.

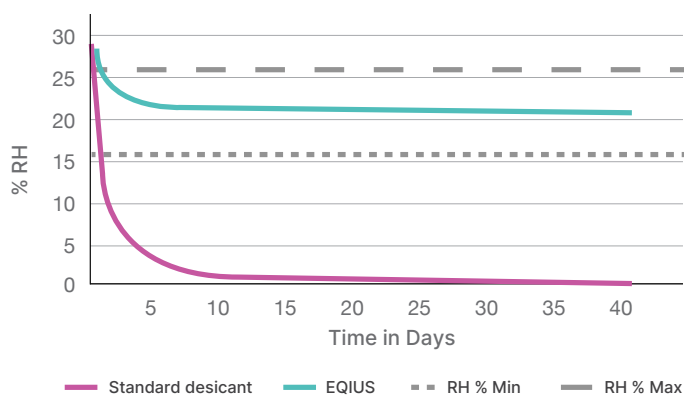
**Ideal package environment:** A calibrated humidity level can help to preserve drug chemical and physical stability.

Unlike a standard desiccant (blue line) which maintains a dry environment inside packaging, EQUIUS stabilizers (pink line) maintain the ERH within specified tolerance levels

**Sensitive formulations protected:** Dedicated RH levels are available to fit the needs of dry powder inhalers (DPIs) and hard and soft gelatin capsules to optimize their performance and delivery.

**Wide range of products:** Configurations include packets, capsules, stoppers and bags at different equilibrium levels from 10% to 95% RH.

**Standard or customized:** An array of standard products is available, whether off-the-shelf or made-to-order, with customization available.



Some pharmaceutical and nutraceutical products are susceptible to stability issues or degradation if they are exposed to too much moisture or an overly dry environment. Many products need to maintain both water content and water activity in order to maintain their integrity. Excessive humidity can cause an active pharmaceutical ingredient to absorb moisture, resulting in deliquescence, decomposition or chemical instability of the drug. For some products, an overly dry package environment can accelerate efflorescence or cause cracking.

EQUIUS Equilibrium RH Stabilizers are compliant with US FDA and EU regulations for use in pharmaceutical, nutraceutical and diagnostic applications.



Whether in packet, capsule, bag or stopper form, we can adjust sorbent formulations to achieve and maintain various ERH levels in pharmaceutical packaging



Regulatory compliance may vary depending on the country and end-use application, please contact your Colorcon representative for more information.

Contact your Colorcon representative or call:

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