

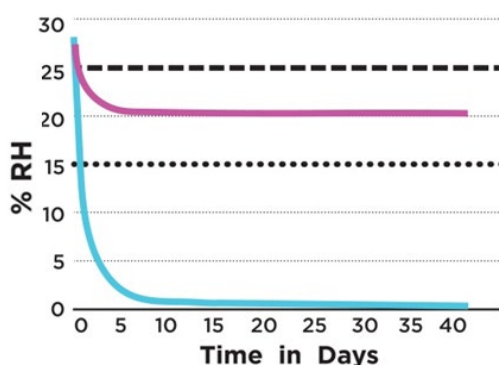


EQUILIBRIUM STABILIZERS FOR RELATIVE HUMIDITY CONTROL

EQius™: Equilibrium RH Stabilizers are sorbent products that maintain a certain humidity level in pharmaceutical and nutraceutical packaging in cases where 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, Equilibrium RH Stabilizers (pink line) maintain a particular ERH within specified tolerance levels.

— Standard desiccant
— EQius™
••••• RH % Min
- - - - - RH % Max

- **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 90% RH.
- **Standard or customized:** An array of standard products are available, whether off-the-shelf or make-to-order, with customization available.

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

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

Regulatory compliance may vary depending on the country and end-use application, please contact us to receive the dedicated document.



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

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