

MOLECULAR SIEVE DESICCANT TABLETS



HUMIDITY PROTECTION FOR SMALL SPACES AND DEVICES

Molecular Sieve Desiccant Tablets are compact and concentrated pre-forms of sorbent material typically used for permeation testing of pharmaceutical packaging. As prescribed by USP <671> it ensures adequate moisture vapor transmission control in unit-dose blister packaging. To conduct the testing, tablets are placed in blister cavities in lieu of pharmaceutical tablets to measure humidity sorption over the time. This approach has become heavily relied upon by pharmaceutical manufacturers, packagers, re-packagers, and the US FDA.

Sorption functionality is provided by 4A molecular sieve. Two references are available to meet the requirements for moisture permeation measurement for solid oral dosage forms packaging.



- **Two specific sizes with 0.125g and 0.25g:** Tablet sizes are specifically designed to be inserted in blister headspaces with the possibility to add multiple tablets if needed. Various sizes can be considered upon request.
- **Small pouch packaging:** Packaging is designed for small quantity consumption. Tablets are packaged in zip-lock aluminum pouches with 320-350 pieces inside, to ensure proper protection and rapid consumption when pouch is opened.

Below are characteristics of the two standard references:

	0.125 G	0.25 G	0.37 G
Adsorption Capacity	> 0.022g at 25°C, 80% RH	> 0.044g at 25°C, 80% RH	> 0.007g at 25°C, 80% RH
Diameter	7.00 mm +/-0.15mm	10.00 mm +/-0.20mm	11.30 mm +/-0.13mm
Thickness	3.00 mm +/-0.20mm	3.00 mm +/-0.20mm	3.18 mm +/-0.13mm
Material	Molecular Sieve 4A	Molecular Sieve 4A	Molecular Sieve 4A
Packaging format	350 tablets per zip-lock aluminium pouch - 280 aluminium pouches per carton	320 tablets per zip-lock aluminium pouch - 300 aluminium pouches per carton	200 tablets per zip-lock aluminium pouch - 160 aluminium pouches per carton

USP <671>

In USP General Chapter <671> of the United States Pharmacopeial Convention National Formulary describes a series of methods to test moisture permeability of blister packaging systems used for solid dosage forms. Conditions used for testing these packaging systems are the same as those used for accelerated stability testing of the primary packaging of the regulated articles (typically 40°C/75% RH). The desiccants prescribed in the procedure are dry desiccants weighing less than 400 mg each and having a diameter of less than 8mm.



In USP <671> testing, desiccant tablets are placed in the blister cavity in lieu of the drug product to test moisture vapor transmission rate (MVTR) of the blister packaging system

The information corresponds to the present state of our knowledge and is intended as a general description of our products. Airnov makes no and disclaims all warranties, express and implied, including but not limited to merchantability, suitability, fitness for a particular purpose, title, regulatory compliance, and all warranties arising from conduct, course of dealing or custom of trade, as to the information's accuracy, adequacy, sufficiency or freedom from defect, and assumes no liability for any indirect, incidental, consequential, special or punitive damages arising from this document, the information contained therein, or the sale of goods. Oral statements made by Airnov's employees or agents, or statements made in Airnov's general advertising or printed materials do not constitute warranties. Any user of this product is responsible for determining the suitability of Airnov's products for its particular application.*Nothing included in this information waives any of Airnov's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Airnov products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Airnov.

© TM Product and service marks protected by Airnov
 © 2021 Airnov – Version 04 of 07/04/2021

