

Technical Data Sheet

BRAND NAME: DRY-BAG® III

Name: Active Mineral Desiccant



Material

Description: Active Mineral Desiccant is made of natural attapulgite changed to natural Mineral desiccant by a series of procedures such as crushing, activation, granulation, drying etc. The raw material source is abundant, widely available, and inexpensive. Its moisture absorption capacity is relatively high, can reach 50% at 25°C and 80% relative humidity; the moisture absorption capacity can even exceed 80% under extreme high temperature and high humidity conditions (40°C and 90% relative humidity), Active mineral desiccant particles will gradually become soft after moisture absorption. When the mineral absorption is supersaturated in a high humidity environment, there may be liquid water exudation, in this situation DuPont Tyvek foils will prevent the leakage of the liquid. However, it is recommended not to place the desiccant in directly contact with metals and other substances in this case. Active mineral desiccant has been widely used in a number of occasions that require high moisture absorption, and it is mostly used in ocean container transportation.

Chemical Composition (on dry basis)	Bentonite	86.00%	1302-78-9 (CAS no.)
	Crystalline Silica	4%	14808-60-7 (CAS no.)
	Calcium chloride	10%	10043-52-4 (CAS no.)

Typical water vapor adsorption capacity at 25°C
at 20% relative humidity \geq 20.3%
at 40% relative humidity \geq 30.7%
at 80% relative humidity \geq 70% - 75%
Loss on ignition (170°C) (on dry basis) max. 2%
Bulk density \geq 670
PH value 7.0+0.5

Standard grain Size:

0.5-2mm, 2-4mm, other special grain sizes on request.

Applications:

Due to its extremely high adsorptive capacity, active mineral desiccant has a multitude of uses:

Static adsorption (= removal of moisture and control of humidity in packaging and other enclosed spaces without inducing air flow).

Packaging:

Packaged from 1 gram up to 500 grams by Tyvek®; airtight in PE barriers and carton with a 2 year shelf life from time of production.

Handling:

Active Mineral desiccant must always be kept in airtight container to avoid pre-adsorption with water vapor. Face masks should be used with exposure to high amounts of dust.

Storage:

Active Mineral Desiccant must be kept in airtight container to avoid absorbing moisture before use.

NOTES:

The data given here is based on current knowledge and experience. This document is designed to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance. User is liable for his own operation.

HS code:

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