

Desiccant bags ES

- standard -

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SYMBOL: ES

REVISION: **02**

Product



Product description

ES are desiccant sachets containing calcined and impregnated granules of natural clay, which is a natural adsorption sorbent with a unique structure and chemical composition. Thanks to thermal treatment and chemical impregnation, the granulate contained in ES bags is characterized by excellent adsorption parameters, ensuring long-term absorption of water from the environment. In this way, it maintains the proper level of moisture, preventing the products it protects from adsorbing water. Both the adsorbent and its packaging are made of non-toxic, chemically inert and odorless materials, thanks to which ES desiccant bags are an environmentally friendly product and safe for people.

Product features / advantages

- high adsorption capacity,
- keeps moisture at a constant level,
- absorbs small amounts of odors,
- does not swell when saturated with water,
- has a long operating time (up to 90 days),
- safe for use with food and products,
- pharmaceuticals, which is confirmed by the PZH certificate,
- dustproof and highly durable TYVEK® packaging.

Physical and chemical parameters

Raw material	Active mineral clay
Material form	Calcined granulate
Chemical composition	Natural clay and calcium chloride
Water adsorption capacity	RH = 20% ; ≤ 21,0%
(T = 25°C, t = 40 days)	RH = 40% ; ≤ 32,0%
	RH = 90% ; ≤ 100,0%
HS code	25084000

Product application

- securing goods in land and sea transport,
- removal of moisture from food and pharmaceutical packaging,
- protection against moisture of devices and products during their operation,
- adsorption of moisture from closed rooms or cars.

Product designation

ES desiccant bags are designed to remove moisture from their surroundings. Moisture from the environment is adsorbed inside the porous structure of the granulate filling the absorbent sachets.

Product storage

ES desiccants should be stored in an airtight container in a dry place before use to avoid initial adsorption of ambient moisture. The sachets are delivered in bulk tight foils preventing the penetration of water vapor into the container. After opening the protective foil and not using all the absorbers at once, the remaining sachets should be closed in an airtight container for the duration of their storage.

Product packing

Sachet packaging

The granules are packaged in double-sided Tyvek® packaging (rear) and laminated plastic (front). The material guarantees full dustproofness and can be used in direct contact with pharmaceutical and food products. The packaging used meets the requirements of e.g. in pharmaceuticals and electronics.

Collective packaging

Desiccant sachets are packaged in collective films (300-micron) to prevent initial adsorption.

Outer packaging

Films with desiccant sachets are packed in cardboard boxes.

Norms/Standards/Approvals

Compliance with directives

ES desiccant bags are products compliant with the provisions of the European Union Directives:

- 2009 / 251 / EC - DMF free,
- 2002 / 95 / EC - do not exceed RoHS limits,
- Regulation No. 1907/2006 (REACH).

Normy

ES desiccant bags meet the requirements for the following standards:

- MIL-D-3464E (USA),
- DIN 55473 (D).

Approvals

All of the offered ES desiccant bags can be used in direct contact with food and pharmaceutical products, which has been confirmed by the hygienic certificate of the Polish National Institute of Hygiene. The use of products with the hygienic certificate of the National Institute of Hygiene ensures that the materials used are safe for human health and the environment.

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