

Container desiccants

- ES Gel 750g -

Product



Product description

ES Gel are container desiccants in the form of a strip with a hook. The filling is high-purity calcium chloride, which absorbs up to 360% of its weight in water from the surrounding air. The water absorbed forms a gel that is retained inside the sachet, thus avoiding the typical leakage of traditional desiccants even at full saturation. The strip consists of six connected 125 g sachets enclosed in a nonwoven protective sheath and is fitted with a hook for hanging inside the container.

Product features / advantages

- absorption capacity up to 360% of its own weight, up to 2,7 l of water per strip,
- the absorbed water forms a gel, it does not drip or leak,
- due to its high absorption capacity, very few units are required,
- hook design allows it to be hung in the cavities of the corrugated wall panels, no tools required,
- suitable for dry and wet cargo, shipped in bulk or in packages.

Physical and chemical parameters

Raw material	Calcium chloride (CaCl_2), CAS 10043-52-4
Material form	Strip of 6 sachets in a nonwoven sheath, with hook
Chemical composition	60% calcium chloride + modified starch
Water absorption capacity ($T = 23^\circ\text{C}$, $\text{RH} = 95\%$)	7 days: 134% w/w 28 days: 300% w/w 42 days: 358% w/w (max. 360%, up to 2,7 l)
Shelf life	24 months in unopened collective packaging
Storage conditions	5-30 $^\circ\text{C}$, dry room
Strip dimensions	1140 × 145 × 20 mm, hook 80 mm

Product application

- protection of cargo in 20' and 40' containers against container rain and condensation,
- agricultural commodities: coffee, cocoa, rice, sugar, nuts, seeds,
- steel, machinery, electronics, furniture, textiles and paper products,
- sea and land transport, including tropical and long routes (over 30 days).

Product designation

ES Gel container desiccants are designed to remove moisture from the air inside a container. Calcium chloride binds water vapour and the resulting solution is retained inside the sachet as a gel. After removing them from their sealed packaging, the strips are hung vertically by the hooks in the rings located in the upper part of the panels of the container wall, provided that the configuration of the load leaves a space of 1" (25 mm) between the load and the side walls. The amount of strips required will depend on several factors such as transport time, weather conditions during transport, air volume in the container, type of packaging used and type of cargo.

Product storage

Before use, store in a closed collective bag, in a dry room at 5-30 °C. Open the collective bag immediately before installation in the container: every hour of contact with air reduces the capacity of the product. Keep any unused strips in an airtight container.

Product packing

Sachet packaging

The sachets are made of Tyvek® nonwoven and laminated (PE-PP) plastic, connected into a strip and enclosed in a nonwoven protective sheath. All materials are food contact according to EU and FDA.

Collective packaging

The strips are packed in plastic bags, 12 pcs. per bag, which protect them against premature absorption of moisture during transport and storage.

Outer packaging

The collective bag is packed into a cardboard box for export: 12 pcs. per box (9 kg of active ingredient).

Norms/Standards/Approvals

Compliance with legislation

ES Gel container desiccants meet the requirements of:

- Regulation (EC) No 1907/2006 (REACH): free from dimethyl fumarate (Annex XVII, entry 61),
- Directive 2011/65/EU (RoHS),
- Regulation (EC) No 1935/2004, for the sachet materials intended for food contact.

Approvals

Approved for use in containers with products from organic agriculture, without food contact (ECOCERT). A safety data sheet compliant with Regulation (EU) 2020/878 is available on request.

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The Polish version is the original. In case of any discrepancy, the Polish version prevails.