

Silica gel E, granular size 2-5 mm, technical data sheet

Silica Gel E – microporous silica gel, non-indicating

Silica gel is an amorphous type of silicon dioxide, which is synthetically produced in the form of hard transparent opalescent beads. Silica gel-E is not classified as toxic according to the current EU legislation.

Silica gel E is microporous with a large surface area. It is suitable for keeping products in a dry condition. Typical applications are:

- Desiccant agent used in packaging (food, electronic, optical, steel, etc.) to prevent moisture
- Desiccant agent used in the capsules for pharmaceutical packaging
- Desiccant agent used in export packaging
- Desiccant used in chemical laboratories

Packing

The standard packing is: 25 kg paper bags with polyethylene-bag. Other packaging is available on request.

Regeneration

Heating about 3 hours at 130 – 150°C restores the original moisture-adsorbing capability.

Typical characteristics

Pore diameter	20 – 30 Angstroms
Bulk density	760 g/l
Moisture adsorption capacity (typical)	
At 25°C, 20% RH:	11%
At 25°C, 50% RH:	26%
At 25°C, 90% RH:	40%
Bead diameter:	2 – 5 mm
Surface area	approx. 600 m ² /g
Pore volume:	0,35 – 0,45 ml/g
SiO ₂ -content:	approx. 99%
Moisture content at packing	<1%