



Silica gel -E, Granular Size 2 – 5 mm Technical Datasheet

Silica Gel E – microporous silicagel, non-indicating

Silica gel is an amorphous form 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 wide surface area. Due to its large surface area it is suitable for keeping products in a dry condition.

Applications are in the field of:

- 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 packing is available on request.

Regeneration

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

Table 1: Typical characteristics of fine porous silica gels with indicator

Bead diameter:	2 – 5 mm
Bulk density:	760 kg / m ³
Surface area:	approx. 600 m ² / kg
Pore volume:	approx. 0,35 - 0,45 ml / g
Pore diameter:	20 - 30Å
SiO ₂ –content:	Approx.. 99 %
Indicating substance:	0,09%
Colour changing point:	25% ± 5
Moisture adsorption capacity (typical)	
at 20°C and 20% RH	12%
at 20°C and 50% RH	21%
at 20°C and 90% RH	32%