

The background of the entire page is a close-up photograph of numerous blue water droplets of various sizes, creating a textured, shimmering effect. On the left side, there is a large, stylized green leaf graphic with several pointed lobes, partially overlapping the water droplets.

Silcarbon
activated carbon

**SILCARBON SILICA GEL AS
DE-MOISTURISING AGENT**

SILCARBON SILICA GEL AS DE-MOISTURISING AGENT



Desiccant silica gel

The presence of moisture can cause degradation of many goods when transported or stored for a longer period of time. This is especially true for highly sensitive products like pharmaceuticals, food, electronics, optical instruments, metals. For these applications Silcarbon can offer different types of silica gels:

Fine-pored silica gel: Silcarbon SGR (beads),
Silcarbon SGG (granules)

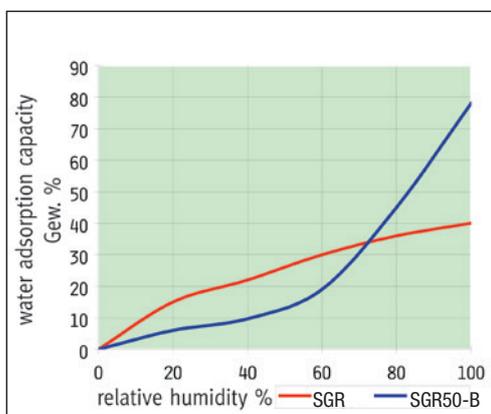
Wide pored silica gel: Silcarbon SGR-B (beads)

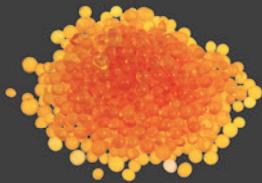
Orange silica gel:

Silcarbon SGO
(beads with orange indicator)

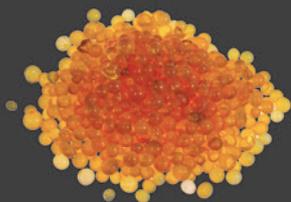
Silcarbon SGO is a silica gel type that contains an indicator which shows the amount of water adsorbed.

When saturated with moisture the orange indicator changes to green. The orange indicator does not contain any cobalt and therefore is free of any hazardous substances.

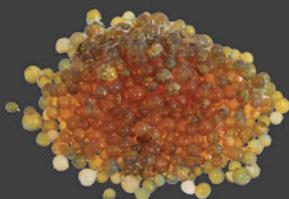




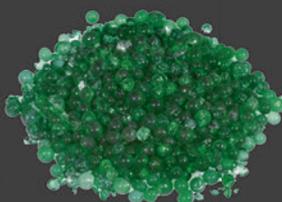
without water



with 10% water



with 15% water



with 25% water

Silica gel is an amorphous form of silicon dioxide (SiO_2)

that is synthetically produced in different forms. Silcarbon Aktivkohle offers silica gel in a granular form, as round beads or as a non-crystalline solid powder. Silica gel is odourless, tasteless, and non-toxic and offers an excellent capacity for physical and chemical demisting due to its outstanding adsorption capacity. It is chemically inert, has a large surface area and high mechanical strength. Therefore silica gel is used when packing food, pharmaceuticals, precision instruments and goods for export. Silica gel is easy to handle. When it is saturated with moisture, the material can be regenerated by simply reheating under specific conditions. Subsequently the silica gel is ready to be re-used.

Silica gel sachets: Silica gel bags made from paper or from TYVEK are filled with 1 g, 2 g, 5 g, 10 g, 30 g, 60 g, 250 g or 500 g of silica gel. The paper and TYVEK bags can be regenerated at 130°C.

Silica alumina gel

This product is water resistant and mainly used when water droplets are present. Silica alumina gel is mainly used for the dehydration of gases, in air compressors, vacuum pumps and for the filtration of liquid air. Two main types are offered:

Silica alumina gel with 3 % Al_2O_3 : Silcarbon SGR50-H

Silica alumina gel with 20 % Al_2O_3 : Silcarbon SGW50

Specialities

Silica gel used for beer clarification. Silica gel for beer treatment is used in the brewing process to eliminate proteins which may cloud the draught. Silcarbon can offer for this application a non-crystalline micro-porous solid powder.

Silcarbon



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