

## PRODUCT DATA SHEET

Emission date 21.01.2013  
Reference PDS/SILICAGEL-SGJB/01



### SILICA GEL SGJB (Non-indicating)

Silica gel sachets or bags, are simply flexible "containers" of silica gel.

The sachet material has to be robust and capable of withstanding normal handling whilst most importantly, being able to breathe. This means that water molecules can pass through the material and be adsorbed by the silica gel. Standard sachet materials are tea-bag paper, fabric, cotton or Tyvek™. Some sachets have heat-sealed seams, others are sewn.

We produce a range of standard size silica gel sachets using non-indicating (white) or self-indicating (orange/green or orange/colourless) silica gels. In the latter case, the colours are visible through the sachet paper or fabric.

Self-indicating silica gel sachets are often useful in test situations, to confirm the suitability of the sachet size chosen, or in cases where an item is frequently inspected and the sachet can be replaced if it has become exhausted.

Stock sachets are as follows:

SACHET WEIGHT	SACHET SIZE
0.5 GRAM	34 x 18 mm
1 GRAM	39 x 20 mm
3 GRAM	55 x 30 mm
5 GRAM	65 x 30 mm
10 GRAM	75 x 40 mm
25 GRAM	125 x 50 mm

Small non-indicating sachets are made as standard using a heat-sealed Tyvek™ material. This is a very strong dust and lint free material which is ideal for sensitive applications. A 0.5 gram non-indicating minisachet is also available at 27 x 16 mm.

The self-indicating (0.5, 1, 3 and 5 gram) sachets use a heat-sealed plain paper made from a blend of top grade manila hemp, cellulose and thermoplastic fibers. They vary in size from the non-indicating sachets being, respectively, 40 x 30mm, 50 x 30 mm, 50 x 50 mm and 65 x 50mm.

The 10 and 25 gram self-indicating sachets are made in a heat-sealed non-woven fabric (see below). All sachets are printed Silica Gel Do Not Eat.

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For additional information contact AMBICARE INDUSTRIAL, S.A.:  
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Small silica gel sachets can prevent moisture damage to electrical goods and electronic components (internally and externally), scientific and optical instruments, communication equipment, metallic parts, leather goods, tools and many other small to medium sized items in use, store or transit.

For situations where the physical space for a sachet is restricted, consider silica gel in capsules: 0.3 gram, 0.6 gram and 1 gram. Call or e-mail for details.

SACHET WEIGHT	SACHET SIZE
50 GRAM	130 x 80 mm
100 GRAM	165 x 80 mm
250 GRAM	185 x 125 mm
500 GRAM	270 x 125 mm
1 KG	320 x 150 mm

Medium sized sachets both non and self-indicating are manufactured as standard in a heat-sealed non-woven fabric made from a 100% viscose fiber with an acrylic binder and polyamide coating. All sachets are printed Silica Gel Do Not Eat and usually with their weight.

Medium sized silica gel sachets can prevent moisture damage to larger electrical/electronic items, metallic components and fabrications, contents of export packing cartons or crates and hygroscopic powders.

SACHET WEIGHT	SACHET SIZE
2.5 KG	400 x 265 mm

The 2.5 kg sachet is made as standard in cotton to give it extra strength. It has two 30cm tapes sewn into the seams of the sachet so can be tied to a suitable fixing point. It is printed Silica Gel Do Not Eat 2.5 kg.

Large silica gel sachets can prevent moisture damage to items in transit in packing crates and shipping containers, large machinery and enclosed vessels such as tanks or pipes.

All sachet sizes are approximate.

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### Variations, Non Standard Sizes And Special Sachets.

The above sachets represent our standard range of off-the-shelf items. In addition to this we are able to manufacture sachets to any other weight that meets customer requirements:

All standard sizes can be made in sewn non-woven fabric (or cotton) sachets where regeneration and reuse of sachets is going to be important.

50 to 500 gram sachets are often made in Tyvek™.

Totally non-standard silica gel sachets - sachets of specific weight or shape, sachets with loops or lengths of tape attached, sachets with Velcro, sachets in bandoliers or sachets that are individually overwrapped in foil or poly pouches.

Sachets can be made using a mixture of materials e.g. silica gel and molecular sieve or silica gel and activated carbon.

### Which Size Sachet To Use?

A silica gel sachet is only effective in an enclosed environment. A physical barrier will prevent water vapour from continually entering such an environment, leaving the finite volume enclosed to be protected by the silica gel.

A general rule of thumb in a 'hermetically sealed' environment, is that 5 grams of silica gel are required per cubic foot of enclosed volume (or 170 grams per cubic meter).

It is often prudent to err on the side of caution and use the nearest standard size sachet over the amount of silica gel that is theoretically required. For large volumes, using a few well-spaced smaller sachets will reduce humidity levels faster than if using a single large sachet.

Often, environments cannot be considered 'hermetically sealed', there will be a number of factors which will increase the amount of silica gel that is needed.

***FOR SAFETY PRECAUTIONS PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET***

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