

PRODUCT SPECIFICATIONS

SILICAGELSTORE SKU: SBBL

Silica Gel, Type A, Blue Indicating 3-5 mm Beaded

CHEMICAL FORMULA

$\text{SiO}_2 + n\text{H}_2\text{O} + \text{CoCl}_2 +$

PRODUCT DESCRIPTION

Silica gel is a naturally occurring mineral silicon dioxide that has been purified and processed into a hard, smooth beaded form. It is also known as a narrow, or micro, pore silica gel and has a vast network of interconnecting pores with diameters of 20-30Å. These pores have a strong affinity for moisture and use physical adsorption and capillary condensation to trap and hold it. Silica gel will remove moisture at temperatures as high as 70°C, but it is best used at room temperature (21-32°C) and high relative humidity (60-90% RH). This silica gel contains a cobalt(II) chloride dye that changes from blue to pink as it adsorbs moisture.

SPECIFICATIONS		
Property	Value	Unit
Water Adsorption Capacity		
RH = 20%	≥ 8	% weight
RH = 35%	≥ 13	% weight
RH = 50%	≥ 20	% weight
RH = 90%	≥ 30	% weight
Bead Size	3 - 5	mm
Indicating Dye	cobalt(II) chloride	
Thermal Conductivity	0.63	KJ/m.Hr.Celsius
Wear Ratio	≤ 3	%
Size Qualification Ratio	≥ 96	%
LOI	≤ 1.0	%
Bulk Density	≥ 750	g/l
HUMIDITY INDICATING		
Colour Change	Blue to Pink	
RH = 20%	Blue / Light Blue	
RH = 35%	Purple / Mauve	
RH = 90%	Light Pink	

TYPICAL APPLICATIONS

As a primary desiccant or blended with other desiccants in any application where visual control of moisture is required, such as compressed air dryers, gas drying, breathers, for protection of non-consumable packaged goods, drying and storage of flowers and seeds, etc. Due to the addition of the moisture indicator, indicating silica gel should not be used in contact with products intended for consumption, such as food or pharmaceuticals.

HANDLING & STORAGE RECOMMENDATIONS

Store silica gel in a dry location to prevent premature water adsorption. Reseal packages after opening to prevent contamination and unintended water adsorption.