



# PRODUCT SPECIFICATIONS

## AGM PN: 920004

SILICA GEL, TYPE A, WHITE/BLUE 10% 2-5 MM BEADED

**Chemical Formula:**  $\text{SiO}_2 + n\text{H}_2\text{O}$

### Product Description:

Silica gel is the 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 150°F, but it is best used at room temperature (70- 90°F) and high relative humidity (60-90% RH).

The 10% of the beads that are blue have been saturated with a moisture indicating solution that gives them a deep blue color when dry. The color of these beads change from blue to pink as it adsorbs moisture. When the blue beads have turned to pink, this indicates that the entire mix is saturated. After saturation, the bead has reached the end of its useful life and should be replaced or regenerated.

Property	Value	Unit
Bead Size	2-5	mm
Nominal Pore Opening	20-30	Angstroms
Color Change	White (Clear)	Indication (@20%RH±6%@20°C)
pH (Slurry)	≈ 7	pH
Water Adsorption Capacity		
20%	≥ 11	% Weight
40%	≥ 22	% Weight
80%	≥ 33	% Weight
Bulk Density	≥ 700	g/l
	≥ 44	lbs/ft <sup>3</sup>
Size Qualification	≥ 97	%
Package Moisture	≤ 1.5	% Weight

### Typical Applications

Desiccant in compressed air dryers; in desiccant packets for protection of packaged products, such as electronics, vitamins, pharmaceuticals, foodstuffs, etc.; catalyst carrier; and any desiccant application requiring premium performance, higher capacity, energy savings, and long-term economy.

### Handling and 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. We recommend that you rotate stock so oldest material is used first.

### Packaging Information

Bags 25 kg  
Drums Fill weights to order specification  
Super Sacks Fill weights to order specification

Health and Safety Information is available on the product SDS.