



## **NSORB® Yellow to Clear Indicating Silica Gel Beads, Type A**

**CHEMICAL FORMULA**  $\text{SiO}_2 \cdot n\text{H}_2\text{O} + (\text{NH}_4)_2\text{SO}_4 \cdot \text{FeSO}_4 \cdot 6\text{H}_2\text{O}$

### **PRODUCT DESCRIPTION**

NSORB Indicated by the color yellow, silica gel is a pure form of silicon dioxide that has undergone synthetic modification to become a firm, smooth bead. When dried, the beads have a yellow (orange) tint since they were soaked in a moisture-detecting solution. It features a large network of interconnected holes with sizes of 20–30 and is also known as a narrow pore silica gel. Physical adsorption and capillary condensation work together to capture and hold the moisture that these pores have a strong affinity for.

When employed at room temperature (70–90 °F) and high relative humidity (60–90 %), silica gel may effectively remove moisture even at temperatures as high as 220 °F.

Typical Properties		
PRODUCT CODE	YS01A	YS01B
Particle Diameter (mm)	1 - 3	2 - 5
Particle Type	Bead	Bead
Type	A	A
Nominal Pore Opening (Å)	20 - 30	20 - 30
Water Adsorption Capacity (wt%)	20% RH	≥ 8
	40% RH	≥ 13
	80% RH	≥ 20
Bulk Density (g/l) [(lb/ft <sup>3</sup> )]	≥ 700 [≥ 44]	≥ 700 [≥ 44]
Size Qualification (%)	≥ 95	≥ 95
Package Moisture (wt%)	≤ 5	≤ 5

### **TYPICAL APPLICATIONS**

In any application where visual control of moisture is necessary, such as compressed air dryers, gas drying, breathers, for protection of non-consumable packaged products, drying, and storage of flowers and seeds, etc., as the primary desiccant or combined with other desiccants. The presence of the moisture indication means that yellow signaling silica gel should not be utilized in contact with goods meant for human consumption, such as food or medicines.

### **PACKAGING INFORMATION**

Available in 55 kg poly bags.

### **HANDLING & STORAGE RECOMMENDATIONS**

Store NSORB 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.

### **HEALTH & SAFETY INFORMATION**

Health and safety information is available on our product SDS, which can be downloaded from our web site [nstarindustrial.com](http://nstarindustrial.com)