



# NORTHSTAR INDUSTRIAL

**NSORB<sup>â</sup>** Silica Gel Beads, Type A, Blue Indicating

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

## PRODUCT DESCRIPTION

Blue silica gel, sometimes referred to as a narrow pore silica gel, contains an extensive network of interconnected pores with widths between 20 and 30Å. Physical adsorption and capillary condensation are used by these pores to capture and retain the moisture due to their high affinity for it. The optimal conditions for using silica gel are at room temperature (70–90° F) and high relative humidity (60–90% Rh), although it can remove moisture at temperatures as high as 220° F.

Typical Properties				
PRODUCT CODE		SG01A	SG01B	SG01C
Particle Type		Bead	Bead	Bead
Particle Diameter (mm)		1 - 3	2 - 5	3 - 5
Nominal Pore Opening (Å)		20 - 30	20 - 30	20 - 30
Color		Blue to Pink	Blue to Pink	Blue to Pink
pH (Slurry)		≈ 4 - 7	≈ 7	≈ 4-7
Water Adsorption Capacity (wt%)	20% RH	≥ 8	≥ 8	≥ 8
	35% RH	≥ 13	≥ 13	≥ 13
	50% RH	≥ 20	≥ 20	≥ 20
Bulk Density (g/l) [(lb/ft <sup>3</sup> )]		≥ 750 [≥ 46]	≥ 750 [≥ 46]	≥ 750 [≥ 46]
Size Qualifications (%)		≥ 95	≥ 95	≥ 95
Package Moisture (wt%)		≤ 4	≤ 4	≤ 4

## TYPICAL APPLICATIONS

NSORB is frequently used in the following

- Gas Drying - Compressed Air Drying - Air Fresheners for Packaged Items

## PACKAGING INFORMATION

Available in 55 lb (25 kg) bags and drums and super sacks filled to order.

## HANDLING & STORAGE RECOMMENDATIONS

Store in a dry location to prevent unintentional 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)

North Star Industrial  
Chicago, IL