

# TECHNICAL DATA SHEET (TDS)

Silica gel desiccant — typical technical properties. Values are based on supplier/manufacturer batch data (standard HG/T 2765.4-2005) and are typical, not a guaranteed specification.

## Product Identification

<b>Product</b>	Silica gel desiccant (white, non-indicating)
<b>Chemical name</b>	Silicon dioxide (amorphous)
<b>CAS No.</b>	7631-86-9
<b>HS Code</b>	2811.2200
<b>Reference standard</b>	HG/T 2765.4-2005
<b>Appearance</b>	Translucent white spherical beads

## Typical Physical & Chemical Properties

Property	Unit	Typical value
SiO <sub>2</sub> content	%	<b>&gt;= 99.0</b>
Bulk density	<b>g/L</b>	<b>720 - 770</b>
Adsorption capacity (RH 20%, 25 C)	%	<b>&gt;= 10.5</b>
Adsorption capacity (RH 50%, 25 C)	%	<b>&gt;= 23.0</b>
Adsorption capacity (RH 90%, 25 C)	%	<b>&gt;= 34.0</b>
Loss on heating (moisture as shipped)	%	<b>&lt;= 5.0</b>
pH (aqueous suspension)	-	<b>4 - 8</b>
Specific resistance	<b>ohm.cm</b>	<b>&gt;= 3000</b>
Melting point	<b>deg C</b>	<b>1708 - 1718</b>
Water solubility	-	<b>Insoluble</b>

## Available Bead Sizes

<b>Standard grades</b>	0.5-1.5 mm, 1-3 mm, 2-4 mm, 2-5 mm, 3-5 mm
<b>Custom sizing</b>	Available on request for bulk / OEM orders

## Handling & Storage

<b>Storage</b>	Keep in sealed, moisture-proof packaging; store cool and dry, away from direct sun.
<b>Shelf life</b>	Indefinite when kept sealed and dry; regenerable by heating.
<b>Regeneration</b>	Heat at 120-150 deg C until moisture is driven off (indicating grades change colour).

**Note:** This TDS is a customer-facing summary prepared by DryGelWorld from manufacturer batch data. Confirm exact values against the batch Certificate of Analysis (COA) for contractual purposes.