

Self-Indicating Silica Gel, Granular-Orange to Green

A narrow pored form of amorphous silica impregnated with an organic indicator (methyl violet).

The beads or granules gradually change colour from orange in the dry (activated) condition to dark green when saturated with water.

Main applications are in breather units, desiccators and for general air drying purposes.



Typical Properties	
Moisture content at 145°C 2% maximum Equilibrium capacity for water vapour at 25°C and given relative humidity (r.h.)	3% maximum
20% r.h.	> 8 % w/w (weight for weight)
35% r.h.	> 12 % w/w
50% r.h.	> 23 % w/w
80% r.h.	> 30 % w/w

BET Surface Area	>600 m ² /g
Pore volume	0.35 – 0.45 ml/g
Average pore diameter	20 – 30 Å
pH (10% aqueous solution)	1.8 – 2.2
Bulk density	700 – 800 g/l

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Color Change	Dark Orange	10% w/w adsorption
	Olive Green	15% w/w adsorption
	Dark Green	20% w/w adsorption
Chemical Composition	Silica SiO ₂	approx. 98% w/w
	Humidity Indicator	approx. 0.2% w/w
Particle Sizes	Beads	2.0 – 5.0 and 4.0 – 8.0 mm
	Granules	0.5–1.0 and 3.0 – 6.0 mm

Toxicity	Non-toxic
Packaging	150kg steel drums, 25kg drums or kegs, 12.5kg and 10kg polytubs, 4kg, 3kg, 1kg and 500 gram polytubs, 1kg and 500 gram foils
Storage	Packages should be kept closed and in a dry place
Shelf Life	Shelf-Life Shelf-life of between one and three years depending on packing type
<p>This material is a non-toxic replacement for the traditional blue/pink self-indicating silica gel. This blue form was reclassified as a toxic material by the EC in 2000 because the colour indicator is a cobalt compound. Regeneration can be carried out at temperatures between 212°F and 248°F.</p>	

Product Code	Nominal Dessicant Content (g)	Nominal Dimensions W x L (in)	Qty/Box
309-0090	0.5	1.5 x 1.1	250



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