

	TDS S3-2021EN ORANGE SILICA GEL	Ed.1-2021
		Issued on 2 October 2021
		Revised on -
		Page 1 of 2

ORANGE SILICA GEL

Orange Silica Gel is a desiccant product with chromatic indication of exhaustion (absorption capacity).

Orange Gel removes moisture from the packaging or from the devices where it is placed.

The Orange Silica Gel changes its colour during the adsorption process. The change of colour shows the desiccant material activity.

When the colour is Yellow, the desiccant material is active/Dry

When the colour is Light blue, the desiccant material is exhausted/Wet

TYPICAL APPLICATION: Inside the breathers, desiccant capsules, air filters and water vapour removal.

DESICCANT COMPOSITION: Brown Silica Gel is an "Hydrated amorphous silicon dioxide" modified with humidity indicating chemical substances.

Labelling and classification: none (Directive 1999/45 CE and CLP)

For further information see the Brown Silica Gel safety data sheet S2-2015

CHARACTERISTICS:

SHAPE: It is available in granular form.

PARTICLE SIZE: (+ 10 % max out of range)

Name	Particle sizes
Orange Silica gel - beads	2 – 5 mm

REGENERATION: oven, maximum temperature of 110 °C , until obtaining the amber / yellow colour again. For more information see TDS 59.

COLOUR: Orange silica gel has the following colouring:

Yellow-Amber: Active desiccant material

Light blue: exhausted desiccant material.

Orange silica gel, exposed to humidity values higher than 25 – 30 % of relative humidity, changes its colour from Yellow-amber to light blue after having adsorbed a quantity of water vapour around 15% of its weight.

After the change of colour, the residual absorption performance is useful to warrant packaging, instruments and devices against the damages caused by the humidity.

Parameters	Measure Units	Values	Standards
Adsorption capacity	(%) weight / weight	(12 +1)% @ 20 % R.H. – 23 °C (20 +2)% @ 40 % R.H. – 23 °C (36 +2)% @ 90 % R.H. – 23 °C	DIN 55473 test in climatic chamber
Residual Humidity	(%)	2,5% Max	120°C – 4 Hours
Density	Kg/l	0,7 – 0,8	BS 3482 . Part 10
PH		3,5 - 7	DIN 55473 Method

	TDS S3-2021EN ORANGE SILICA GEL	Ed.1-2021
		Issued on 2 October 2021
		Revised on -
		Page 2 of 2

STOCKING & HANDLING: Keep in an airtight container, in a dry and sheltered place. Minimize dusting during use.

INFORMATIONS: The product is a solid mixture, it does not need to be labelled in conformity with Directive 1999/45 CE and CLP.

Reach: The chemical components of the mixture are in conformity with Reach Regulation. The Brown Silica Gel does not contains biocides and it is in conformity with Directive 94/62 CE (concentration of Heavy metals).

NOTES: The given information are offered in good faith, but without guarantee. No patent liability is assumed.

END OF THE DOCUMENT

DISIDRY SILICAGEL BY ZEST S.R.L.

Via Della Resistenza, 1 I-50039 Vicchio (Fi) ITALY

www.silicagel.it – info@silica-gel.it

VAT number: IT05938490488

Numero di iscrizione Registro Imprese Firenze 05938490488 - Registro Imprese Firenze n. R.E.A. 587170