
	Product Information	
		
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Product

SORBSIL® CHAMELEON® silica gel is a non-hazardous, synthetic amorphous form of silicon dioxide, treated with an environmentally-friendly inorganic indicator compound. Due to its large inner surface area of approx. 800 m²/g, the material exhibits a high rate of adsorption for water vapour. SORBSIL® CHAMELEON® changes color from deep orange when dry to colorless when nearly saturated with water vapour, allowing the user to determine when the adsorption capacity has been exhausted.



Formula

amorphous silicon dioxide SiO₂ · n (H₂O)

CAS-No.

silica 7631 – 86 – 9

ferric ammonium sulphate 7783 – 83 – 7

Adsorption capacity for water vapour

at 20 % rel. humidity min. 10.0 %

at 40 % rel. humidity min. 19.0 %

at 50 % rel. humidity min. 23.0 %

Moisture loss max. 2.0 %

Bulk density approx. 700 g/l

Standard Grain Size

0.2 – 1.0 mm 1.0 – 3.15 mm

0.7 – 1.5 mm 2.0 – 6.0 mm

Application

SORBSIL® CHAMELEON® provides exceptional adsorption for industrial and commercial applications. High adsorption capacity and low moisture content ensures that our customers receive the product at its highest state of activity. During use, a steady and consistent colour change is clearly visible until the granules reach a water content of approx. 25 wt. %. Risks related to moisture (product damage or loss, gas stream contamination, mould growth, etc.) are minimized and profitability is improved. SORBSIL® CHAMELEON® retains its dry granular form even when fully saturated, and due to a relatively high coefficient of friction provides safe and user-friendly handling characteristics without rolling or bouncing. The material is suitable for multiple regeneration processes at 140 °C; this factor combined with high adsorption capacity and a gradual colour change provide for highly efficient and economical applications.

Packaging

Cartons with 25 kgs net, steel drums with 125 kgs net or Big-Bags with 500 kgs net

Handling

SORBSIL® CHAMELEON® must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used at continual exposure to extensive dusting.

Note

Any details of application possibilities do not free the purchaser from the obligation of performing his own test on the material supplied by the seller in order to determine their suitability for the intended processes and purposes. Application, use and processing of the material cannot be controlled by the seller and are thus the sole responsibility of the purchaser.

OKER-CHEMIE GmbH

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Im Schleeke 77 · 38642 Goslar ·

☎: 05321 / 751-53415 ✉ vertrieb@oker-chemie.de 🌐: <http://www.oker-chemie.de>