

	Product Information 	Doc: PI-SRB-01
		Date: 09 / 2024
		Revision: 05



SORBSIL® CHAMELEON®

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.

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; this factor combined with high adsorption capacity and a gradual color change provide for highly efficient and economical applications.

SORBSIL® CHAMELEON®

provides exceptional adsorption for industrial and commercial applications. High adsorption capacity and low moisture content ensure 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.

Basis

Formula	amorphous silicon dioxide	SiO ₂ · n (H ₂ O)
CAS-No.	silica	7631 – 86 – 9
	ferric ammonium sulphate	7783 – 83 – 7

Characteristics

Adsorption capacity	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	0.7 – 1.5 mm	1.0 – 3.15 mm	2.0 – 6.0 mm

OKER-CHEMIE GmbH

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Packaging

Cartons	with Polyethylene Inliner at 25 kg
Steel drums	with Polyethylene Inliner at 125 kg
Big Bags	with Polyethylene Inliner at 500 kg

Handling

SORBSIL® CHAMELEON® must always be kept in airtight containers to avoid 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 own tests 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.

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