

PRODUCT INFORMATION

SPEC-NO.: SIO - 05

November 2004
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Brand Name

SORBSIL® CHAMELEON C

Product Description

SORBSIL® CHAMELEON C silica gel is a synthetic, amorphous form of silicon dioxide, treated with an inorganic indicating compound which is not classified as hazardous.

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 C changes colour from deep orange to nearly white as it adsorbs water vapour, allowing the user to determine when it needs replacing.

Formula

SiO₂ · n (H₂O) – (amorphous silicon dioxide)

CAS-No.

7631-86-9 (silica)

7783-83-7 (ferric ammonium sulphate)

Physical Characteristics

Adsorption capacity for water vapour

at 20 % rel. humidity = approx. 10.0 %

at 40 % rel. humidity = approx. 19.0 %

at 50 % rel. humidity = approx. 23.0 %

Bulk density approx. 700 g/l

Standard grain sizes

0.2 - 1.0 mm

0.7 – 1.5 mm

1.0 - 3.15 mm

2.5 – 5.0 mm

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Applications

SORBSIL® CHAMELEON C silica gel exceeds all relevant national and international standards for adsorption capacity. Combined with low residual moisture, this ensures that the product is in the highest state of activity when received by the customer.

The indicating properties in combination with its high adsorptive capacity removes the risk of contamination or mould growth thus considerably reducing costs due to product damage or loss.

SORBSIL® CHAMELEON C desiccant retains its dry granular form, even when fully saturated. Its high strength ensures that there is minimal dust creation during use.

The material is suitable for multiple regeneration processes at 140 Degrees Celsius and is therefore very economic in use.

Packaging

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

Handling

SORBSIL® CHAMELEON C 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 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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