

MATERIALSPEZIFIKATION

SPEC-NO.: SIO – 06

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- Brand Name:** SIOGEL[®], small porous, blue "Indicating Type"
(Silica Gel)
- Product Description:** glassy, hard, irregular shaped granules with a very high purity of approx. 99 % SiO₂ (dry basis) and an internal surface area of approx. 800 m²/g!
Because of its very large surface area SIOGEL exhibits a high adsorption for water vapour.
SIOGEL "Indicating Type" contains 0,3 - 0,4 % of Cobalt (as Co). The blue granules change colour to pink when saturated and exhausted. The change of colour is reversible. The material changes colour back to blue when being reactivated.
SIOGEL, small porous, blue "Indicating Type" conforms to
US MIL-D-3716 A, Type IV, Grade H
BS 3523
German TL 6850-0028
- Formula:** SiO₂ · n (H₂O) - amorphous form of silica
- CAS-Nr.:** 7631-86-9 (Silica)
7646-79-9 (CoCl₂)
- Physical Characteristics:** Typical water vapour adsorption capacity
- | | |
|-------------------------|----------------|
| at 20 % rel. humidity = | approx. 10,0 % |
| at 40 % rel. humidity = | approx. 21,5 % |
| at 80 % rel. humidity = | approx. 31,0 % |
- loss on ignition (950 °C) max. 7,0 %
(on dry basis)
- Bulk density 650 - 750 g/l
- Standard grain sizes:** 0,2 - 1,0 mm
1,0 - 3,15 mm
2,0 - 5,0 mm
other special gradings on request

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- Applications:** SIOGEL "Indicating Type" is a desiccant intended for the removal of moisture from air, other gases, and liquids by static and dynamic means.
- The material is impregnated with an indicator (Cobalt) and should be used whenever a visual indication of the degree of saturation of the desiccant is required.
- The temperature at reactivation should not exceed 110 °C
- Packaging:** airtight in 25 kg-cartons, reconditioned 125 kg-steel drums or 1.000 kg-bulk bags
- Handling:** SIOGEL 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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