



TECHNISCHE
UNIVERSITÄT
DRESDEN

SBA-15

hexagonal mesoporous SiO_2

Chemical Data

Chemical composition:
 SiO_2 ($M_w = 60.1 \text{ g mol}^{-1}$)

Min./Max. quantity: 1 gram
10 grams

Air and moisture sensitivity:
stable under hydrothermal conditions

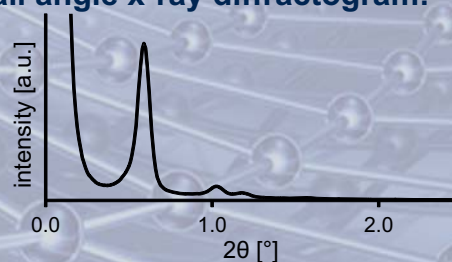
Colour: colorless

Pore size: 5-7 nm

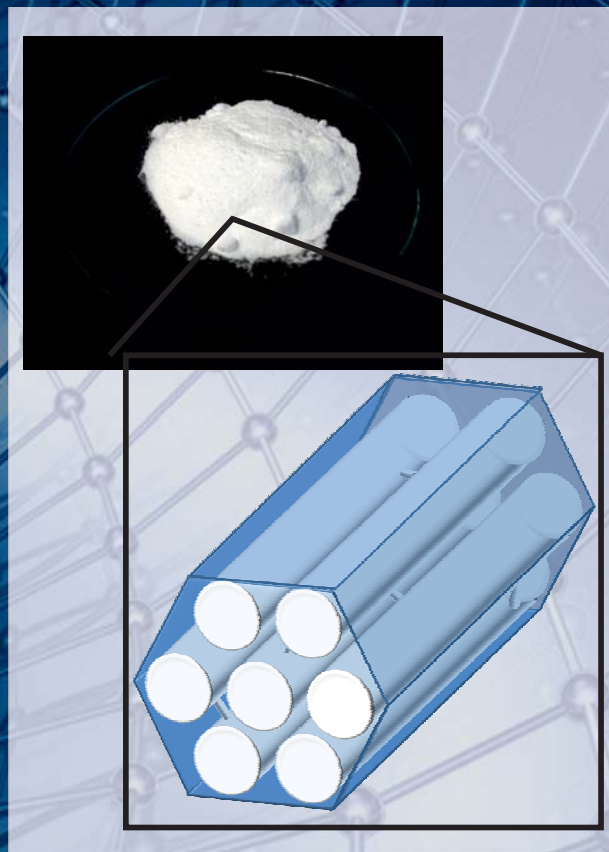
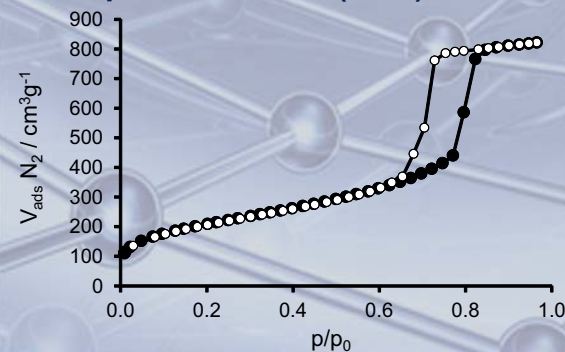
Single point BET ($p/p_0 = 0,3$):
 $\sim 700 \text{ m}^2\text{g}^{-1}$

Specific pore volume ($p/p_0 = 0,9$):
 $\sim 1.25 \text{ cm}^3\text{g}^{-1}$

Small angle x-ray diffractogram:



Adsorption isotherm (77 K):



Literature

D. Zhao, J. Feng, Q. Huo, N. Melosh, G. H. Fredrickson, B. F. Chmelka, G. D. Stucky, *Science* **1998**, 279, 548-552.

Information, quantities and prices:

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