



TECHNISCHE  
UNIVERSITÄT  
DRESDEN

ACS-2

activated carbon spheres

Highly Porous  
Spherical Carbon

Information, quantities and prices:

Materials Center

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materials.center@chemie.tu-dresden.de

[http://www.chm.tu-dresden.de/ac1/materials\\_center/](http://www.chm.tu-dresden.de/ac1/materials_center/)

TU Dresden

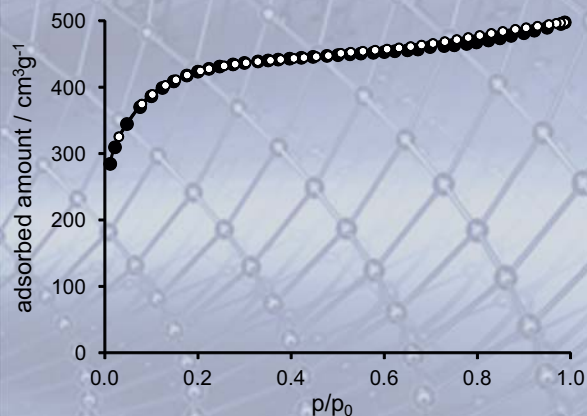
Department of Chemistry and Food Chemistry

Inorganic Chemistry I

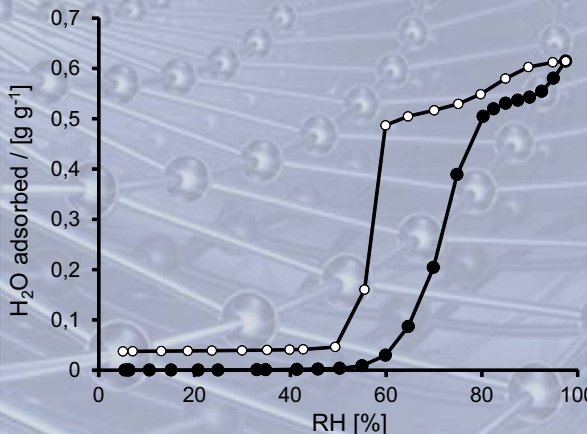
01062 Dresden

## Adsorption Data

**N<sub>2</sub>-Adsorption isotherm (77 K):**



**H<sub>2</sub>O-Adsorption isotherm (235 K):**



ACS-2 is a spherical high performance carbon material with high hydrophobicity, porosity and mechanical strength.

It is suitable for applications in separation and purification, like the removal of VOCs (volatile organic compounds) but also as a BET reference material or catalyst support.

## Chemical Data

### Chemical Composition:

C (M<sub>w</sub> = 12.01 g mol<sup>-1</sup>)

Min./Max. quantity: 1 gram / 1 kg

### Air and Moisture Sensitivity:

stable in air and against water

Colour: black

Sphere Size: 600 µm

### Specific Surface Area:

1340 m<sup>2</sup>g<sup>-1</sup> (Single Point BET, p/p<sub>0</sub>=0,3)

### Specific Pore Volume (p/p<sub>0</sub> = 0,98):

0.77 cm<sup>3</sup>g<sup>-1</sup>

## Photograph

