

# CarboTech C 40/4 Extra

## Technical Information



### Product Description

CarboTech C 40/4 Extra is an extruded activated carbon, produced from selected mineral coal by steam activation, and used for different applications in the gas phase. Favourable desorption properties account for a low consumption of steam during desorption, and the particle diameter of 4 mm accounts for a low pressure loss during operation. CarboTech C 40/4 Extra therefore is a product with attractive technical and economical characteristics. Moreover, CarboTech Extra products are subjected to a special sifting and dedusting procedure, and therefore possess very good properties in practical handling.

### Product Application

Preferred application field for CarboTech C 40/4 Extra is the adsorption and recovery of medium-boiling solvents and other organic substances.

### Specific Characteristics

CarboTech C 40/4 Extra offers the following advantages:

- High adsorption capacity for medium-boiling compounds
- Long service life
- Low steam consumption
- Low pressure drop
- Reactivation possible, if required
- Consistently high product quality guaranteed by CarboTech

### Recycling by Reactivation

If required, CarboTech C 40/4 Extra can be reactivated. Its high mechanical stability and pore structure account for excellent reactivation characteristics. The used activated carbon can be thermally reactivated at temperatures above 850°C. The adsorbed organic compounds are thereby desorbed and destructed by thermal reactions.

### Packaging

- 350 kg Big Bags
- 600 kg Big Bags
- 17 kg Paper Bags, 510 kg on pallet

### Technical Description

Specification	
Apparent density	390±30 g/l
Moisture (as packed)	max. 5 %
CTC-number	min. 80 %
Benzene loading	
p/p <sub>s</sub> =0.9	min. 48 %
p/p <sub>s</sub> =0.1	min. 40 %
p/p <sub>s</sub> =0.01	min. 24 %
p/p <sub>s</sub> =0.001	min. 12 %
p/p <sub>s</sub> = relative saturation concentration, c <sub>s</sub> at 20°C = 320 g/m <sup>3</sup>	
Typical Properties	
BET-surface	1200 m <sup>2</sup> /g
Pore volume	1.0 cm <sup>3</sup> /g
Ignition temperature	400°C
Hardness number	97 %
Particle diameter	4 mm

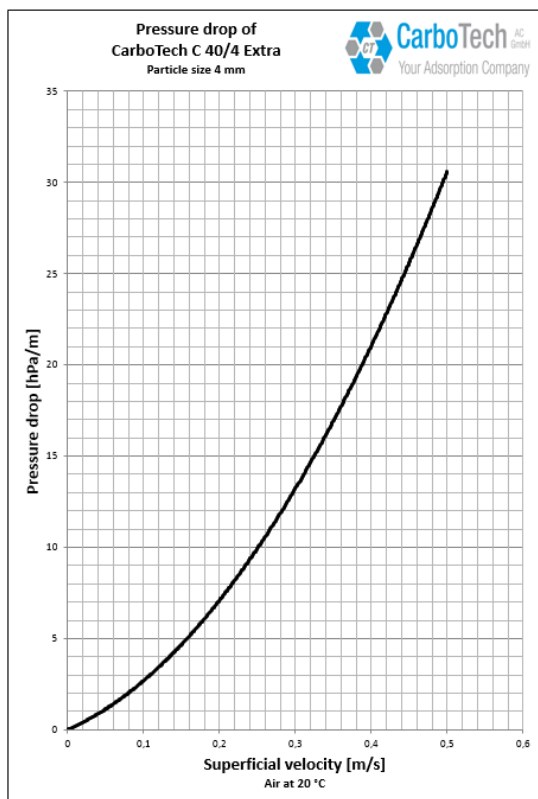
Methods of analysis are available upon request



Due to the fact that the products are manufactured on the basis of natural raw materials the typical properties may vary, but represent the average of continuous product/quality control.

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### Safety Advice

Wet activated carbon removes oxygen from the surrounding air. In closed or partially closed rooms or containers, oxygen depletion may reach hazardous levels. The directives on entering closed, potentially oxygen depleted rooms, as well as the warnings in CarboTech's Safety Data Sheets have to be observed.

### Quality

CarboTech guarantees the specifications through representative sampling and analysis.