

P180 Carbon Dioxide Adsorbent

TECHNICAL DATA SHEET

Document No.	Version	Issue date	Revision date
P180-TDS-EN	V1.0	-	-

01 Product overview

P180 Carbon Dioxide Adsorbent is supplied as high-performance porous adsorbent. It is intended for the applications and performance ranges described in this document.

02 Basic information

Property	Value
Product name	P180 Carbon Dioxide Adsorbent
Short name	P180 CO2 Adsorbent
CAS number	Not applicable; porous material
EC number	Not applicable
Molecular formula	Not specified
Molecular weight	Not applicable
Appearance	White, fine, low-density granules

03 Product features

- High specific surface area and optimized pore structure
- Selective capture of carbon dioxide
- Regeneration by heating or pressure reduction

04 Typical specifications

Property	Specification	Method / remarks
Appearance	White, fine, low-density granules	-
Particle size	60-100 mesh	-
Density	0.64 g/cm3	-
BET surface area	614.7 m2/g	-
Total pore volume	0.395 cm3/g	-
Average pore diameter	2.57 nm	-
Most probable pore diameter	2.13 nm	-
Pure CO2 adsorption capacity	11.4 mmol/g	1 bar, 25 C

05 Recommended applications

- CO2 capture from power-plant and steel-mill flue gas
- CO2 removal for natural-gas purification
- CO2 removal upstream of air-separation units
- Capture of formaldehyde, hydrogen sulfide and other acidic gases
- Supercritical CO2 extraction, food-grade CO2 production and fine-chemical synthesis

06 Packaging

25 kg fiber drum. Custom packaging available.

07 Storage and handling

Store sealed in a dry, cool place away from fire and heat. Protect from moisture. Shelf life: 12 months in the original packaging.

08 Disclaimer

This information is provided in good faith based on current knowledge. Conditions and methods of use are beyond the supplier's control. The user is responsible for evaluating the product for the intended application and required performance. For reference only. Final requirements are subject to the executed contract and current product documentation.

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