



# DEXSORB® Powder Technical Datasheet

Renewable Adsorbent for Selective Removal of PFAS

(Revised on 11/28/2023)



## DEXSORB Granules

DEXSORB is a novel cyclodextrin adsorbent, designed to be compatible with various engineered solutions for the removal of PFAS (per- and polyfluoroalkyl substances) in diverse water systems, such as drinking water, groundwater, surface water, wastewater, and landfill leachate. Extensive lab and pilot studies have demonstrated superior properties: (i) rapid kinetics, (ii) high treatment capacity, (iii) resistance to fouling, (iv) easy regeneration, and (v) concentration of PFAS waste. These properties derive from the molecular selectivity of uniform 0.78 nanometer cyclodextrin cavities in DEXSORB, making the media well-suited for PFAS and other contaminants in 150-1000 Dalton range. DEXSORB performance is not impacted by matrix effects of natural organic matters (NOM), inorganic ions and bioactivity.

## Typical Applications

- Residential Filtration
  - Countertop Pitcher (Pleated Paper)
  - Point of Use Filters (Extruded Block)
- Drinking Water Treatment (Media Coated Membrane)
- Water Testing (Pleated Paper Extraction Disc)

## Available Particle Sizes

- Granules: 212–700  $\mu\text{m}$
- Granules: 212–1200  $\mu\text{m}$
- Powder: 20–150  $\mu\text{m}$

## Standard Packaging

- 25 kg (55 lbs)
- Bulk packaging available upon request

## Chemical and Physical Specifications

Polymer Structure	crosslinked cyclodextrin
Appearance	yellow powder
Bulk Density <sup>1)</sup>	0.55 kg/L (34.3 lbs/ft <sup>3</sup> )
Effective Size	20–150 $\mu\text{m}$
Thermal Stability	300 °C (572 °F)
Moisture Content	8–12%

<sup>1)</sup> Polymer swells when wet.

## Certifications and Approvals



- TSCA