

DARCO® BG 1 ACTIVATED CARBON HIGH PERFORMANCE, COST EFFECTIVE H₂S REMOVAL

DARCO BG 1 is a non-impregnated, granular, steam activated carbon. It is designed for superb hydrogen sulfide (H₂S) removal from landfill gas (LFG), anaerobic digester gas (ADG) from agricultural waste and wastewater treatment plants, and flare gas. DARCO BG1 achieves high sulfur loading rates due to the surface area within its extensive pore structure and its efficient catalytic reaction. While having high loading capacity, it remains easy to change out. Customers needing to minimize their total cost for H₂S removal need look no further than DARCO BG 1 activated carbon.

Applications

- Biogas-to-power Upgrading
- Biogas-to-RNG Upgrading
- Flare Gas Pre-treatment

DARCO BG1 is also available in a 4mm pellet. BG1 P offers lower pressure drop and lower potential for dust.

Performance Information

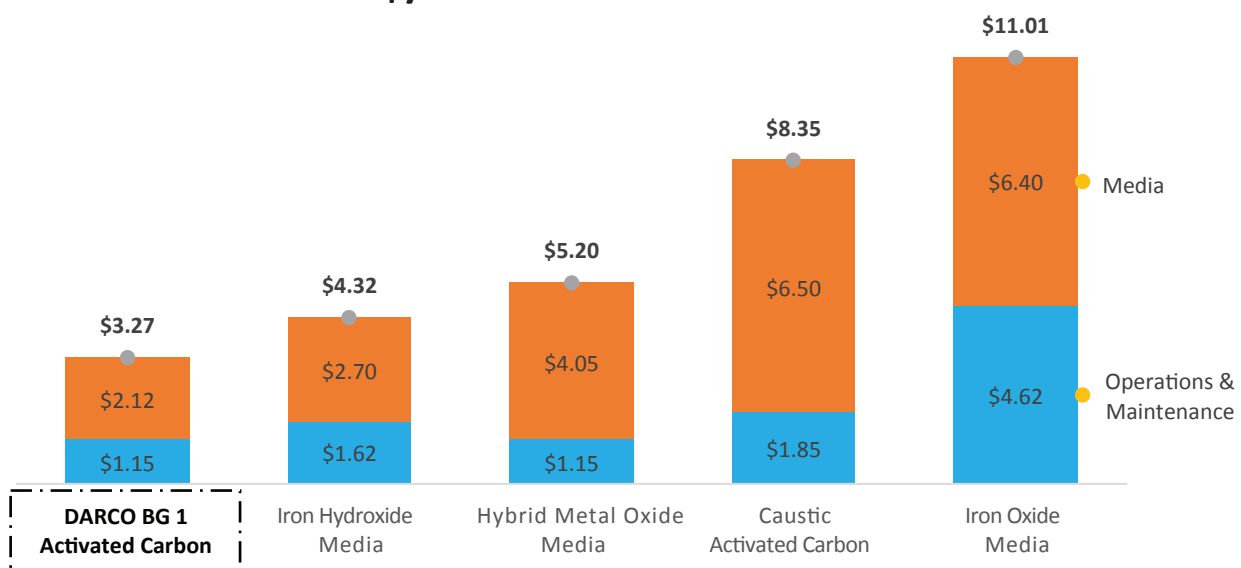
- >85% loading capacity by weight*
- Longer life = fewer change outs
- Easy to load and unload
- Safe to handle and dispose. Chemistry is not conducive to bricking, self-heating, or regenerating H₂S
- Includes mercaptan and siloxane removal
- Low \$/lb of sulfur removed

**For adequately designed systems, DARCO BG 1 has been measured to consistently load greater than 85% sulfur by weight (85 lbs of sulfur per 100 lbs of BG 1). Individual spent samples have confirmed as high as 120%.*

Benefits

- Produced in North America
- High efficiency and low density reduces frequency and volume of change-outs
- Produced and activated specifically for biogas purification

\$/lb of H₂S Removed



Data based on lab studies.

Application Support

NORIT technical sales and application support teams provide top-notch guidance on appropriate carbon solutions, vessel sizing, and ongoing technical support. Our application knowledge and expertise is always available to address your purification needs. We want to be your biogas purification partner.

- Analysis and recommendation of your activated carbon needs
- Vessel sizing
- Analysis of spent activated carbon
- Specific contaminant removal application information
- Support for trials of activated carbon
- Product information and samples

Disposal

DARCO BG 1 activated carbon converts H₂S to elemental sulfur when operated under ASTM-6646 test conditions. Spent carbon produced under these conditions has been determined to not meet the definition of a characteristic Resource Conservation and Recovery Act (RCRA) hazardous waste based on ignitability, reactivity, corrosivity or toxicity criteria. Final waste determinations must be made by the generator since the site-specific conditions may affect the waste characteristics and classifications, as well as any state specific requirements.



DARCO BG 1 is an industry benchmark, helping customers minimize their H₂S purification costs. The carbon's combination of high loading capacity, ease of use, and valued pricing offers biogas owners and operators an exceptionally low cost of H₂S removed.



Our sales, technical service and customer service teams are prepared to serve customers around the world. Contact us at NORIT.com.

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