



BENEFITS

-  **Cost-Effective:** Due to its high capacity, DARCO H2S LP reduces replacement frequency and overall cost.
-  **Operational Efficiency:** Lower pressure drop means reduced energy requirements and a smaller blower size, which reduces operational cost.
-  **Environmental Safety:** Converts H₂S to elemental sulfur, a more stable and less hazardous form.
-  **Versatile Applications:** Ideal for sewage treatment plants, pumping stations, and other odor control systems.
-  **Perfect for High Humidity Streams:** Performs well in high humidity environments.

FEATURES

-  **BABA Mined and Manufactured:** Produced from high-quality U.S. mined coal, ensuring consistent quality and reliable supply.
-  **High H₂S Loading Capacity:** Has an H₂S loading of 50% or greater (50g of H₂S removed for every 100g of DARCO H2S LP).
-  **Catalytic and Easy to Remove:** Converts H₂S to elemental sulfur and stores it within its pores, not just on the surface. This reduces bricking and allows easy removal from odor control systems.
-  **Unique Pore Structure:** Engineered with twice the mesopore and macropore volume of traditional odor control carbons. Enables rapid diffusion of large odor molecules and efficient adsorption.
-  **Low Dust and Pellet Form:** Manufactured as 4 mm pellets, reducing dust and pressure drop in systems.

SPECIFICATIONS

Hydrogen Sulfide Capacity	> 0.2 g/ml	ASTM D6646
Ball-Pan Hardness	> 85	ASTM D3802
Moisture, as Packed	5% Maximum	ASTM D2867

GENERAL CHARACTERISTICS

Density, Tamped Apparent	30-36 lbs/ft ³ 0.52-0.58 g/cc	ASTM D2854
Estimated Field Loading	50%	ASTM D6646
Diameter	4 mm	



LOADING OF H₂S ON DARCO H2S LP

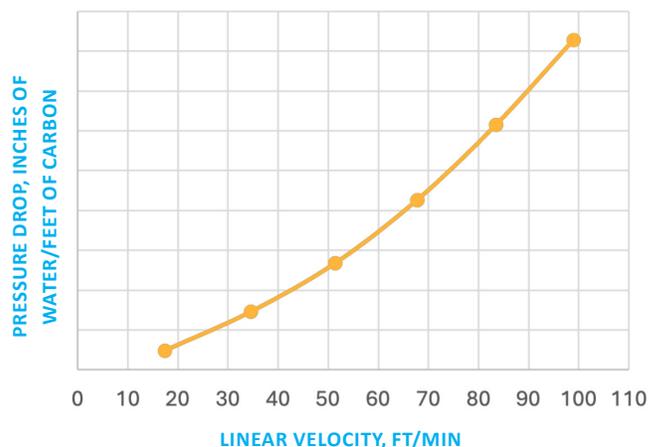
The ASTM D6646 H₂S capacity test does not accurately predict real-world performance in odor control applications. In practice, DARCO H₂S LP has demonstrated greater than 50% loading (grams of H₂S removed per gram of activated carbon) — a level substantially higher than other treated carbons.

ASTM D6646 measures loading capacity using 10,000 ppm H₂S gas. However, most wastewater treatment facilities encounter foul air streams with less than 100 ppm H₂S. As a result, the test conditions do not reflect typical odor control environments. While ASTM D6646 reports a 0.2 capacity result for DARCO H₂S LP, field data shows the product achieves significantly higher loadings under real-world conditions.

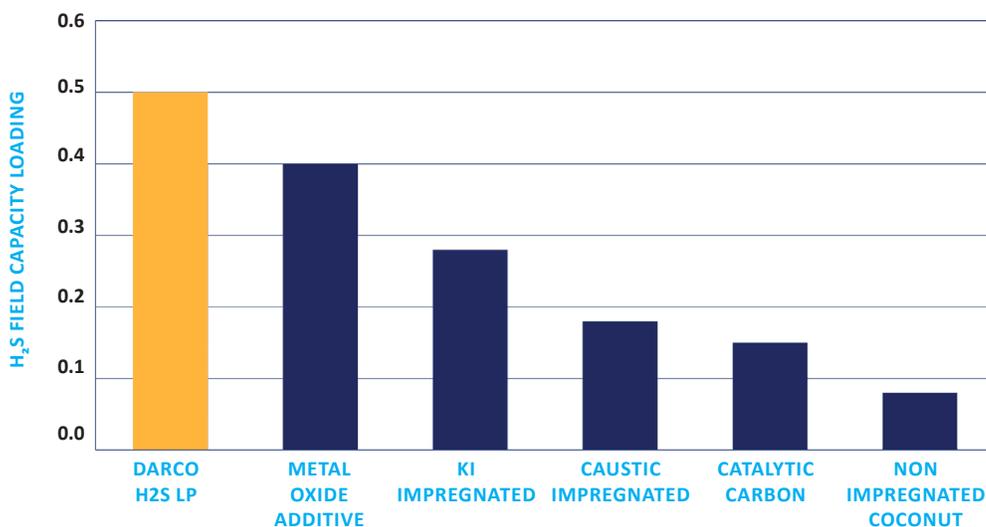
Some products use metal oxide additives to achieve a minimum H₂S capacity of 0.3 g/cm³. While effective at boosting removal capacity, these additives can cause issues such as crystal formation in downstream piping and “bricking” within the carbon bed. In contrast, DARCO H₂S LP removes H₂S by converting sulfide to elemental sulfur, which deposits safely within the carbon pores. Additionally, its 4 mm pellet form delivers a lower pressure drop compared to granular products.

PRESSURE DROP CURVE

DARCO H2S LP



FIELD CAPACITY LOADING



ABOUT NORIT

NORIT is among the world’s largest, most experienced producers of activated carbon, with a history of more than 100 years of innovation in manufacturing and product development. Our products are used to remove pollutants, contaminants, and/or other impurities from water, air, food and beverages, pharmaceutical products, and other liquids and gases in an efficient and cost-effective manner.



CONNECT WITH US:
email: acsalesna@norit.com