



H2S Breakthrough Capacity **Addendum to ASTM 6646**

When testing the H₂S breakthrough capacity of our Sulforsorb A (0.3g H₂S/cc), Sulforsorb B (0.2g H₂S/cc) and Sulforsorb C (0.1g H₂S/cc) activated carbons, it is critical to follow the ASTM 6646 test method for Determination of the Accelerated Hydrogen Sulfide Breakthrough Capacity of Granular and Pelletized Activated Carbon. The test method allows for diversity in pretreating the carbon being sampled and accommodations to the actual operating conditions during the test being done. In order to get our published capacities, the following conditions need to be adhered to.

Specifically, it is necessary:

1. To condition the bed by running high humidity (>85%RH) air through the bed for approximately 6 hours.
2. To apply 5% H₂S gas per the ASTM procedure until breakthrough of 50 ppm H₂S has occurred.
3. To maintain a gas velocity as specified in the ASTM procedure.
4. To water cool the column to maintain a temperature of 25⁰C.

Also, please note that should a 1” diameter column be used, the pellets must be crushed to <2.5mm particle size.