Activated Carbon beds are often the most neglected and misunderstood piece of equipment in an amine unit. An optimized activated carbon bed is a key part to good amine unit operation for soluble contaminant removal.

**ACTIVATED CARBON**

A carbon bed provides adsorption for soluble contaminants in a process stream. It is **not** a particle filter. Carbon beds should not build differential pressure. They should always be protected with a suitable pre-filter and should always be used in combination with a suitable post filter.

**Applications**

- Amine purification
- Mercury removal
- BTEX removal from acid gas
- Gas desulfurization
- Lube oil removal
- General organic contamination removal
- Color removal

**A well-designed activated carbon bed has many uses:**

- Protects absorber from foaming
- Reduces need for antifoam additives
- Reduces amine make-up
- Reduces corrosion
- Improves absorber efficiency

Activated carbon is a powerful molecular separation medium. It is capable of removing:

- Soluble species in a liquid
- Some aerosols in a gas stream
- Molecular species in a gas stream

**Types:** Powder, Granular, Pelletized, and Extruded

**Sources:** Lignite, Coconut Shell, Wood, Bituminous and mixed types

DO YOU HAVE THE RIGHT ACTIVATED CARBON FOR OPTIMUM EFFICIENCY? CONTACT US