

## ORGANOCLAY - F ORGANIC ADSORPTION MEDIA COMMON QUESTIONS

### What is ORGANOCLAY- F?

**Organoclay- F** is an organically modified adsorbing media, utilized as a primary, pre- and post-treatment for various waste streams. The surface of the product is chemically changed from a hydrophilic (water absorbing) to organophilic (organic adsorbing) state, giving it a strong affinity to organic matter.

### How does ORGANOCLAY- F Work?

**Organoclay- F** adsorbs organic molecules through a series of platelets, which are a natural structure of the base clay and are capable of organic adsorption ratios of up to 60% by weight.

### What will ORGANOCLAY- F Remove?

**Organoclay- F** is designed to remove low soluble organics including but not limited to: oils, grease, other petroleum products, including PCBs and PCPs. Waste streams void of organic material will simply pass through without consuming media.

### How is ORGANOCLAY- F used?

**Organoclay- F** is primarily used as a fixed bed media in a column filtration design, making it easily adaptable to conventional filtration systems. This product can be used as a post-treatment step to polish a treated effluent or as a pre-treatment step for treatment with Granular Activated Carbon (GAC). **CETCO®** also offers this product in a replaceable cartridge for more efficient change out and loading.

### How is ORGANOCLAY- F more efficient than GAC?

Activated carbon will adsorb organics through a surface mechanism. This process is subject to blinding, when a high concentration of organics are present. This condition consumes pore structures, thus lowering the available surface area required for adsorption. The unique platelet structure found in **Organoclay- F** allows organics to be absorbed by the clay surface. This increased surface area allows for consistent organic absorption at ratios of up to 60% by weight.

### How is spent media disposed of?

Waste classification of spent **Organoclay- F** is determined by the matter removed and retained in the spent media. This material will typically pass TCLP standards and, if classified as non-hazardous, can be disposed of in an appropriate landfill. **Organoclay- F** also has a high BTU value and is often desirable for fuel blending facilities and kiln operations.