

# BJAAM Services, Inc. Products

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BJAAM offers a wide range of solidification and stabilization products to meet both field remediation, and industrial solidification and stabilization objectives. These products are more cost-effective and safer to use than traditional solidification products, such as fly ash, lime, diatomaceous earth, and Portland cement.

<b>STABILIZATION, SOLIDIFICATION AND FIXATION PRODUCTS</b>		
<b>PRODUCT</b>	<b>DESCRIPTION</b>	<b>FUNCTION</b>
<b>B-Bond™ Granular / Powder</b>	Clay-based absorbent formulation	General stabilization formulation for elimination of free liquids in order to pass Paint Filter Test. Works on wastes ranging in pH 2 - 12
<b>B-Bond™ OM2</b>	Special clay-based absorbent formulation	Special solidification / stabilization formulation for wastes containing heavy metals, oils and organics; ties up heavy metals in order to pass TCLP test
<b>B-Bond™ M2</b>	Special clay-based solidification formulation	Special solidification / stabilization formulation for wastes containing heavy metals; ties up heavy metals in order to pass TCLP test
<b>B-Sorb™</b>	Specially formulated superabsorbent	High efficiency formulation suited for solidification of water-saturated wastes, with minimum volume increase (<1%)
<b>B-Sorb™ Plus</b>	Combined clay-based and superabsorbent formulation	High efficiency formulation suited for solidification of aqueous or semi-aqueous wastes containing organic matter
<b>B-Sorb™ H</b>	Specialty clay-based superabsorbent blend formulation	Highly efficient solidification / stabilization formulation for aqueous waste with organics

Water treatment for oils and greases, and other low-soluble, high molecular weight organics is enhanced when BJAAM's chemically modified clay and clay blends are used in conjunction with activated carbon in flow-through systems. These formulations can extend life of GAC up to 500%.

<b>ADSORPTION MEDIA</b>				
<b>Granular Product</b>	<b>Organically Modified</b>	<b>Cost Effective</b>	<b>Versatile Technology</b>	<b>Consistent Results</b>
<p>OC-30 is a modified clay/anthracite media</p> <p>OC-100 is 100% modified clay</p> <p>Non-reactive, non-hazardous</p>	<p>Has a high affinity for low-soluble organic molecules</p> <p>Allows water to pass and will not be used up if organic material is not present</p>	<p>OC-30 can absorb up to 50% of its weight in oil and other high-molecular weight organics</p> <p>OC-100 can absorb 100% or more of its weight</p> <p>Extends the life and adsorbency of activated carbon by removal of larger molecular organics which tend to blind the pore structure of activated carbon</p>	<p>Removes dissolved, mechanically emulsified, and free oil from wastewater</p> <p>Can be easily adapted in general filtration systems</p> <p>Can be applied as fixed-bed media or in removable cartridge filters (OC-100 only)</p>	<p>Can accommodate surges in organic concentration levels caused by plant upsets</p> <p>Unique sorption mechanism eliminates blinding and maintains flow rates</p>

BJAAM's one-step wastewater treatment system removes contaminants from wastewater in a single step. A single clay-based reagent formulation is added to wastewater and mixed briefly. Within minutes, emulsions are broken, and contaminants are removed. Excellent for removal of oils, heavy metals and suspended solids from wastewater.

<b>B-CLEAR™ CLAY-BASED WASTEWATER TREATMENT PRODUCTS</b>				
<b>Dry Product</b>	<b>Decreased Process Time</b>	<b>Versatile Technology</b>	<b>Cost Effective</b>	<b>Consistent Results</b>
Packaged in 500# drums or bulk super sacks for easy storage and movement  Low dust and granular blends to minimize dusting  Can be easily introduced to a waste stream with a dry product feeder  Twenty current "off-the-shelf" formulations	B-Clear combines multiple functions of traditional treatment into one simple step  Base clays used in B-Clear blends allow faster precipitation and settling of soluble metals  Typical treatment time required for full reaction is less than two minutes	Effective treatment of waste streams with a pH from 2 – 12  Can be utilized in batch or in-line treatment schemes and in most cases with existing equipment  Removes heavy metals, TSS, oils, and other organic and inorganic matter	Requires very little operator input  Only one product to add and maintain  Generates a solid waste that is easily de-watered and is typically classified as non-hazardous	B-Clear products are more forgiving if overdosing occurs  High affinity for metals, organics, and other contaminants

## Wastewater Treatment Equipment



*BJAAM's wastewater treatment units utilize BJAAM's B-Clear™ clay-based flocculants to clarify industrial wastewaters.*

Wastewater treatment equipment is available. Options include:

- Package systems and component systems
- Manual, semi-automatic or fully automatic operation
- Epoxy-coated carbon steel, or stainless steel construction
- Storage tanks and accessories are also available
- Capacities to treat flows from 100 gpd to 100,000 gpd

## Adsorption Media Vessels

Flow-through systems for use with OC-30, OC-100 adsorption media, and GAC are available.

- Vessels for flow rates of 10 gpm to 400 gpm
- Systems are configured specifically for your water treatment application

