



OMZ* Organo Sorbant is a patented, modified alumino silicate that is designed to absorb anions such as chromate, selenate, sulfate, hydrocarbons (e.g. benzene, toluene, and xylene), heavy metals (e.g. lead and cadmium), and various petroleum products from aqueous waste streams.

APPLICATIONS Groundwater

Manufacturing Process Water Paint Stripping Electroplating Wood Treating Water from oil production wells

CONTAMINANTS REMOVED

diesel fuel, gasoline, oils, PCB's, BTX, heavy metals, PCE, THM's oil, grease solvents, heavy metals heavy metals pentachlorophenol, creosote oil, diesel fuels

How OMZ Works

Anions are absorbed on outer coating

Coating (positively charged)

Cations are absorbed on the substrate

The basic concept involves imparting hydrophobicity to alumino silicate substrate by coating it with a strongly bound hydrophobic compound. Other hydrophobic chemicals, such as hydrocarbons, prefer to combine with the surface-modified particles rather than maintaining suspension in water. The treated alumino silicate also absorbs inorganic oxyanions such as chromate, selenate and sulfate while maintaining its natural sorbtion capacity for heavy metals. The base media is an alumino silicate with an exceptional cation exchange capacity. The modifying agent is a strong cation that replaces other cations on the surface producing a surface anion exchanger.

(*U.S. Patent Nos. 5278112, 5314852, and other patents pending)

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