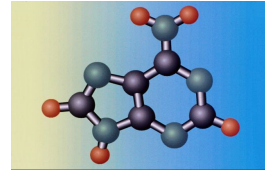


PO Box 540562
Merritt Island, FL 32954-0562
866-449-0324

EcoSense Filtration Technology



ESI MZ Stormwater Media Modified Alumino Silicate

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

CONTAMINANTS REMOVED

diesel fuel, gasoline, oils, PCB's, BTX
Ortho-PO₄, Heavy metals, PCE, THM's,
oil, grease
solvents, heavy metals
heavy metals
pentachlorophenol, creosote
oil, diesel fuels

How ESI MZ Works

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 sorption 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.