



Why OMZ is Superior to Tailored Clays

Tailored clays have been used successfully for a number of years to adsorb organic contaminants. OMZ, because it is not a clay medium but an alumino silicate, is a better alternative. When water passes through a clay medium, the clay particles expand reducing the inter-particle space and lowering the permeability of the clay medium. Indeed, the tailoring process itself, due to coagulation of the tailoring agent, may cause a further reduction of permeability. The OMZ alumino silicate is a large network of open channelways similar to a sponge with uniform holes and a high cation exchange capacity. Unlike clay particles, this structure is rigid and stable (even under aqueous conditions) allowing more contaminants to be adsorbed in its open channelways.

Examples of the chemistry OMZ can be effective in removing from waste streams:

4	anthracene penenthrene diesel fuel solvents THM's arsenic Selenium	naphtalene creosote PCE toulene aluminum mercury calcium	benzene oil/grease flourene humic acids magnesium barium silver	non-ionic surfactants ethyl benzene pyrene indeno pyrene antimony nickel chromium	chloroform pentachlorophenol fulvic acids methylene chloride manganese cadmium tin	
2	Cation exchange capacity Bulk density (treated) Hardness Pore size Thermal stability Specific surface area Mesh size Crushing strength		2.20 meq/g 55 lbs/ft ³ 5.1 mohs 4.0A 1,202F 40 m ² /g 4x6, 6x14 2,500 lb/in ²	1 ft ³ fiberboard dru 55 gallon plastic p Bulk bags (2,000 l	1 ft ³ fiberboard drums (60 lb net) 55 gallon plastic pails (400 lb net) Bulk bags (2,000 lb net)	

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