Cameron Carbon INCORPORATED

Activated Carbon & Related Technology

P.O. Box 995 Havre de Grace MD 21078 USA
Toll Free: (800) 394-6844
Tel: +1 (410) 942-0240 • Fax: +1 (410) 942-0242
www.cameroncarbon.com • sales@cameroncarbon.com

OMZ

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:

anthracene	naphtalene	benzene	non-ionic surfactants	chloroform
penenthrene	creosote	oil/grease	ethyl benzene	pentachlorophenol
diesel fuel	PCE	flourene	pyrene	fulvic acids
solvents	toulene	humic acids	indeno pyrene	methylene chloride
THM's	aluminum	magnesium	antimony	manganese
arsenic	mercury	barium	nickel	cadmium
Selenium	calcium	silver	chromium	tin

Properties

Cation exchange capacity	2.20 meq/g
Bulk density (treated)	55 lbs/ft^3
Hardness	5.1 mohs
Pore size	4.0A
Thermal stability	1,202F
Specific surface area	40 m^2/g
Mesh size	4x6, 6x14
Crushing strength	2,500 lb/in^2

Packaging

1 ft^3 fiberboard drums (60 lb net)
55 gallon plastic pails (400 lb net)
Bulk bags (2,000 lb net)