



HYDROSIL
INTERNATIONAL LTD.

Hydrosil HS-250 Compared to Organophilic Clays

	Hydrosil HS-250	Organophilic Clays
Active Ingredient	quaternary amine	quaternary amine
Substrate	Zeolite	Clay
Cation Exchange Capacity	Yes	No
Active Media by Volume	50 %	30 %
Bulk Density	53.9 #'s/ft³	53.0 #'s/ft³
#'s of Active Media (1.0 cubic foot)	28.9 #'s	21.5 #'s
Disposal Cost	Same	Same

➤ Conclusion

Hydrosil impregnates zeolite with a 4.1% quaternary amine solution. We call this product HS-200. In certain applications, HS-200 is mixed 50/50 by volume with anthracite coal to preclude binding. This product is called HS-250.

Our competitors use clay as an alternative to zeolite, presumably for economic considerations. In addition, when anthracite coal is included our competitors relationship of coal/clay amine is 70/30.

If all other factors are equal, the active ingredient (quaternary amine) is approximately 34% greater than pounds of the active ingredient in our competitors' products.