



HYDROSIL
INTERNATIONAL LTD.

Organoclays – Ion Exchange

ORGANOCLAY SERIES

CATION EXCHANGE:

HS-200

HS-MT

ANION EXCHANGE:

HS-300

The *Organoclay Series* includes Hydrosil products that are manufacturer with zeolite and proprietary impregnations. The organoclays are successful in removing pollutants in liquid phase due to their ion exchange ability.

Ion exchange is a process where dissolved ionic pollutants in the water are removed by a similarly charged ion that is attached to a solid particle. For the case of the *Organoclay Series*, the zeolite forms a surfactant bilayer that forms either a positive charge or negative charge depending on the type of ion needs to be treated in the water.

For the HS-200 and HS-MT, these products target cations, and heavy metals. The HS-200 is best at removing fats, oils, and greases, but it will also target a cation with a positive charge. Historically in lab tests, the HS-MT specifically works best on removing nickel, cadmium, zinc, chromium, and thallium. However, the HS-MT will also target any other cations in the water such as mercury, barium, manganese, vanadium, etc.

Hydrosil's HS-300 is specifically designed to remove anions, or pollutants with a negative charge. This includes water pollutants such as phosphates, cyanides, nitrates, and sulfates.

For more information on Hydrosil's *Organoclay Series* please contact us at sales@hydrosilintl.com.