

pH Adjusting Filters

How It All Works

pH Adjusting Filter

Calcite is a naturally occurring calcium carbonate media. One of the advantages of Calcite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions. Upon contact with Calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service rates. Depending on pH, water chemistry and service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted.

Corosex can correct acidic water conditions and render it less corrosive. Corosex, being a highly reactive magnesium oxide, is used most effectively where pH correction is substantial or high flow conditions are in use. pH correction and media consumption are affected by a number of water chemical variables. Corosex will slowly dissolve and will need to be replenished periodically. On a per weight basis, magnesium oxide can neutralize much more acidity than can calcium carbonate, (five times as much). This results in greatly reduced chemical usage for the same pH correction. Please note, under certain low flow conditions, Corosex may overcorrect and create a highly basic (high pH) condition. Under certain hardness conditions, pH correction can cause hardness minerals to precipitate out of solution, resulting in cementing or solidification of the Corosex mineral bed. Upflow service is generally recommended with hardness exceeding five grains per gallon. As Corosex's magnesium oxide neutralizes the water, it will increase hardness and occasionally a softener may become necessary after the neutralizing filter. Corosex can be effectively combined with Calcite to combine the high flow neutralization properties of Corosex, along with the slower reacting low flow properties of Calcite, reducing potentially high basic properties due to overcorrection.

PH ADJUSTMENT

Lake water in our region is typically low in pH and consequently represents a risk to your plumbing and fixtures as it is corrosive. In addition, low pH can cause a dry itchy skin condition and sting eyes when showering or bathing. It can also be hard on colour treated hair!

We offer simple upflow calcite filters and backwashing calcite corosex mixed media filters. We make a recommendation on which system to use based on the pH of the raw water.

Both calcite and corosex are sacrificial medias that will, over time, dissolve into the water as they bring up the pH. We suggest that annual inspections are done so that the media can be replenished before it runs out.

About Muskoka Clean Water

- Well trained courteous staff.
- Store front location to serve all your water treatment needs.
- We use NSF certified and CSA certified products when and where applicable in our filters and installations.
- We service all types of water treatment systems even if we did not sell it.
- Members of the Canadian Water Quality Association and the Water Quality Association.

SERVICES AVAILABLE

Technical Support

Installation and Setup

Maintenance

Financeit™



77 Centre St. North
Huntsville, ON P1H 1T4
705-349-2837
www.muskokacleanwater.com
info@muskokacleanwater.com

