Calcite

Calcite is a crushed and screened white marble media, which can inexpensively be used to neutralize acidic or low pH waters to a neutral, less corrosive condition.

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.

ADVANTAGES
• Naturally occurring material
• Low uniformity coefficient for maximum contact for controlled pH correction
• Slower reacting for controlled pH correction
• Inexpensive

CONDITIONS FOR OPERATION
• A gravel support bed is recommended
• Water pH range: 5.0-7.0
• Bed depth: 24-30 in.
• Freeboard: 50% of bed depth (min.)
• Backwash rate: 8-12 gpm/sq. ft.
• Backwash Bed Expansion: 35% of bed depth
• Service flow rate: 3-6 gpm/sq. ft. but may be modified to adapt to local conditions

DESCRIPTION OF OPERATION
As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter. Calcite can be effectively combined with Granular Magnesium Oxide (GMO) to combine the high flow neutralization properties of GMO, along with the slower reacting low flow properties of Calcite, increasing the ability to correct low pH.

PHYSICAL PROPERTIES
• Color: Near white
• Bulk Density: 90 lbs./cu. ft.
• Mesh Size: 16 x 40
• Specific Gravity: 2.7
• Effective Size: 0.4 mm
• Uniformity Coefficient: 1.5
• Hardness: 3.0 (Mohs scale)
• Composition: $CaCO_3$, 95% min. $MgCO_3$, 3.0% max.

Water King
WATER CONDITIONING