

# NEUTRALIZATION MEDIA



## NEUTRALIZER

**SWT Neutralizer (P/N PH10003)** is a naturally occurring calcium carbonate media. One of the advantages of Neutralizer 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 Neutralizer, 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 Neutralizer bed will have to be periodically replenished as the Neutralizer is depleted. Certified to NSF/ANSI/CAN Standard 60.

### FEATURES

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

### Suggested Operating Conditions

A gravel support bed is recommended

Water pH Range..... 5.0 - 7.0

Bed Depth..... 24 to 30 inches

Freeboard ..... 50% of bed depth minimum

Backwash Rate..... 8 to 12 gpm per sq. ft.

Service Flow Rate ..... 3-6 gpm/sq. ft.

Maximum Usage..... 650 mg/L

Backwash Bed Expansion ..... 20 - 40% of bed depth

### Typical Properties

Color..... Near White

Bulk Density..... 90 lbs./ cu. ft.

US Standard Mesh Size..... 16 x 40

Specific Gravity..... 2.7 gm/cc

Effective Size ..... 0.4mm

Uniformity Coefficient..... 1.5

Hardness..... 3.0 (Mohs scale)

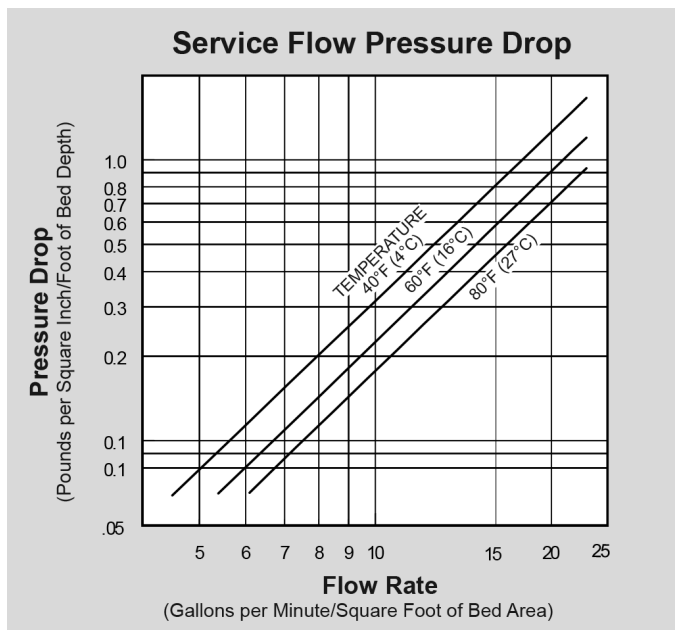
Composition..... CaCO<sub>3</sub>, 95% min.  
MgCO<sub>3</sub>, 3.0% max.

As the Neutralizer's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter. Neutralizer can be effectively combined with Neutralizer Plus to combine the high flow neutralization properties of Neutralizer Plus, along with the slower reacting low flow properties of Neutralizer, increasing the ability to correct low pH.

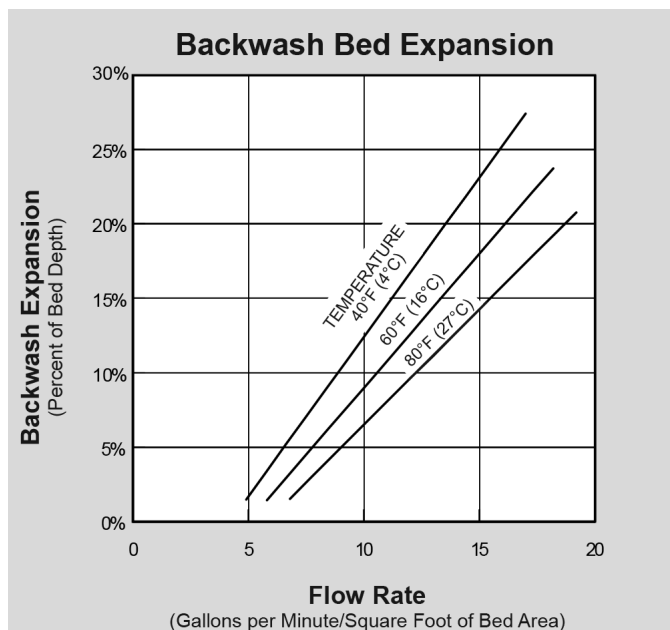
# NEUTRALIZATION MEDIA



## NEUTRALIZER



**PRESSURE DROP** — The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.



**BACKWASH** — After each cycle the media bed should be backwashed at a rate that expands the bed 20 to 40 percent.

This information has been gathered from standard materials and/or test data that is believed to be accurate and reliable. Nothing herein shall be determined to be a warranty or representation expressed or implied with respect to the use of such information or the use of the goods described for any particular purpose alone or in combination with other goods or processes, or that their use does not conflict with existing patent rights. No license is granted to practice any patented invention. It is solely for your consideration, investigation and verification.