

NEUTRALIZATION MEDIA



NEUTRALIZER PLUS

SWT Neutralizer Plus (P/N PH10001) can correct acidic water conditions and render it less corrosive by neutralizing the free carbon dioxide in water. Neutralizer Plus is used most effectively where pH correction is substantial or high flow conditions are in use, it is a highly reactive magnesium oxide. pH correction and media consumption are affected by a number of water chemical variables. Being soluble to acidity, Neutralizer Plus will slowly dissolve and will need to be replenished periodically. Certified to NSF/ANSI/CAN Standard 60.

FEATURES

- High degree of activity and speed of correction allowing high flow
- High capacity, less chemical usage

On a per weight basis, magnesium oxide can neutralize five times more acidity than can calcium carbonate. This results in greatly reduced chemical usage for the same pH correction. ***Please note; under certain low flow conditions, Neutralizer Plus 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 Neutralizer Plus mineral bed.

Upflow service is generally recommended with hardness exceeding five grains per gallon. (Always use an in-line filter ahead of an upflow system to prevent plugging of the lower distribution screen.)

As Neutralizer Plus's magnesium oxide neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter. Neutralizer Plus can be effectively combined with Neutralizer to combine the high flow neutralization properties of Neutralizer Plus, along with the slower reacting low flow properties of Neutralizer, reducing potentially high basic properties due to overcorrection.

Suggested Operating Conditions

Water pH Range.....	4.5 - 6.0
Bed Depth.....	24 to 30 inches
Freeboard	50% of bed depth minimum
Backwash Rate.....	10 to 12 gpm per sq.ft.
Service Flow Rate	5-6 gpm/sq. ft.
Maximum Usage.....	100 mg/L

Typical Properties

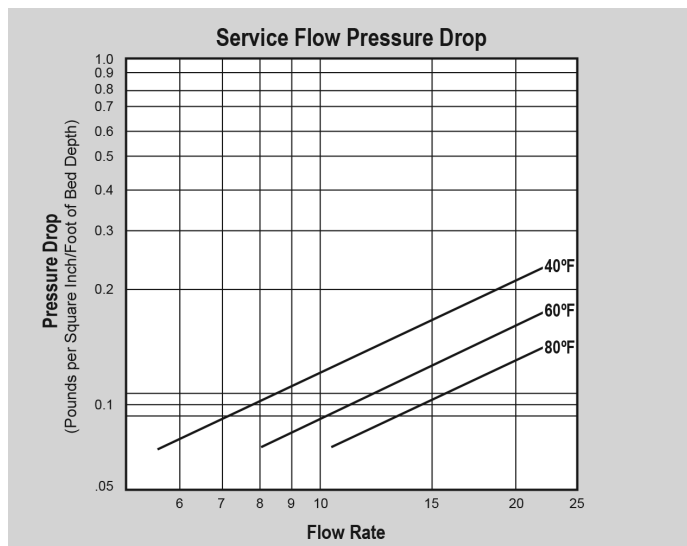
Color.....	Brownish White
Bulk Density.....	75 lbs./ cu. ft.
US Standard Mesh Size.....	6 x 16
Specific Gravity	3.6 gm/cc
Effective Size	1.4mm
Uniformity Coefficient.....	1.7
Composition.....	MgO 97% minimum

Backwash Bed Expansion- Due to Neutralizer Plus' high density and large particle size, a new bed is difficult to expand, but it is still imperative to backwash in order to keep the bed clean. Over time, as the media is consumed, the particle size will decrease and backwash bed expansion will begin to occur. Backwash Bed Expansion- Due to Neutralizer Plus' high density and large particle size, a new bed is difficult to expand, but it is still imperative to backwash in order to keep the bed clean. Over time, as the media is consumed, the particle size will decrease and backwash bed expansion will begin to occur.

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Downflow service is generally satisfactory on waters with a hardness of less than five grains/gallon or where it's combined with Neutralizer at least 50-50. Upflow service is generally recommended with hardness exceeding five grains/gal. to prevent cementing of the Neutralizer Plus bed. Use distributors designed for upflow applications. A gravel support bed is recommended.

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

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