

MEDIA & FILTRATION DATASHEET

FLOMAG

FloMag PWT is a highly reactive magnesium oxide, specially processed to treat a low pH by neutralizing the free carbon dioxide in water. FloMag PWT will slowly dissolve and will need to be replenished from time to time. FloMag PWT is to be used in continuous flow systems.

ADVANTAGES

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



PHYSICAL PROPERTIES

- Color: Brownish white
- Bulk Density: 1.201 kg/l
- Mesh Size: 6 x 16
- Specific Gravity: 3.6 gr/cm³
- Effective Size: 1.4 mm
- Uniformity Coefficient: 1.7
- Composition: MgO 97% min.

CONDITIONS FOR OPERATION

- Downflow service is generally satisfactory on waters with a hardness of less than 85.6 ppm or where it's combined with Calcite at least 50-50. Upflow service is generally recommended with hardness exceeding 85.6 ppm to prevent cementing of the FloMag bed
- Use distributors designed for upflow applications
- A gravel support bed is recommended
- Water pH range: 4.5-6.0
- Bed depth: 457 - 762 mm
- Freeboard: 50% of bed depth (min.)
- Backwash frequently to prevent possible cementing
- Backwash rate: 24.4 - 29.3 m/h
- Service flow rate: 12.2 - 14.7 m/h but may be modified to adapt to local conditions
- Max usage 100 mg/L



FLOMAG PWT

By neutralizing the free carbon dioxide in water, FloMag can correct acidic water conditions and render it less corrosive. FloMag, 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.

Being soluble to acidity, FloMag will slowly dissolve and will need to be replenished periodically. 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, FloMag 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 FloMag mineral bed. Upflow service is generally recommended with hardness exceeding 86 ppm. (Always use an in-line filter ahead of an upflow system to prevent plugging of the lower distribution screen.)

As FloMag's magnesium oxide neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

FloMag can be advised to be combined with the Clack Calcite media if there is no continuous service flow. By this we prevent a high pH rise of above 10 which could result into multiple problems. As result of this combination we get a more stable pH rise.

ORDER INFORMATION

Reference	0904020003 (10872000011)
Item name	FLOMAG PWT 6X16
Packaging	50LB Bag
Bulk density	78 lb/ft ³

CERTIFICATION

