

Clack Corosex® is a specially processed hard, bead-like magnesia, adapted for use in filters to neutralize acidity by increasing the pH value.

Corosex®



Corosex®

By neutralizing the free carbon dioxide in water, 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. Being soluble to acidity, Corosex 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, 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. (Always use an in-line filter ahead of an upflow system to prevent plugging of the lower distribution screen.)

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

Corosex can be effectively combined with Clack 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.

ADVANTAGES

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

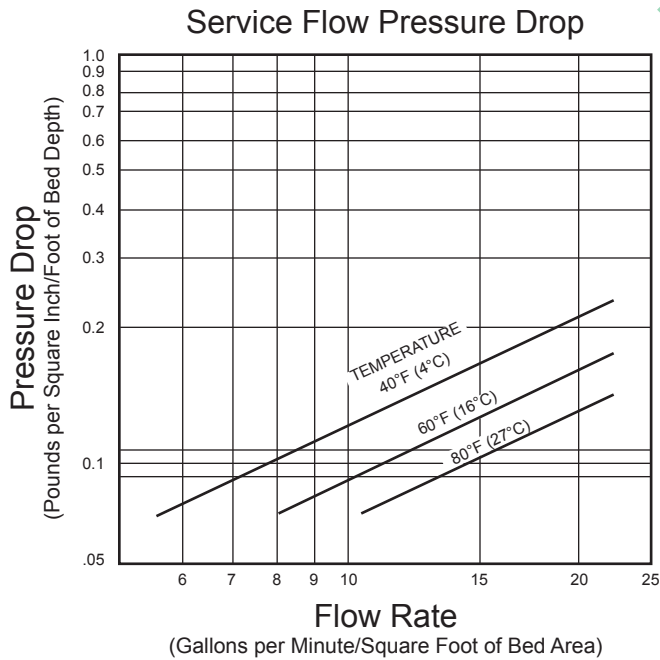
PHYSICAL PROPERTIES

Corosex

- Color: Brownish white
- Bulk Density: 75 lbs./cu. ft.
- Mesh Size: 6 x 16
- Specific Gravity: 3.6 gm/cc
- 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 five grains/gal. or where it's combined with Calcite at least 50-50. Upflow service is generally recommended with hardness exceeding five grains/gal. to prevent cementing of the Corosex bed
- Use distributors designed for upflow applications
- A gravel support bed is recommended
- Water pH range: 4.5-6.0
- Bed depth: 24-30 in.
- Freeboard: 50% of bed depth (min.)
- Backwash frequently to prevent possible cementing
- Backwash rate: 10-12 gpm/sq. ft.
- Service flow rate: 5-6 gpm/sq. ft. but may be modified to adapt to local conditions
- Max usage 100 mg/L



Backwash Bed Expansion-
 Due to Corosex's 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.

ORDER INFORMATION

Part No.	Description	Cu. Ft./Bag	Wt./Cu. Ft.*	Bags/Pallet	Weight/Pallet	Pallet Dimensions
A8011	Corosex®	.66 (50 lbs.)	75 lbs.	60	3050 lbs.	48" x 36" x 50"

*Weight per cubic foot is approximate.



FloMag® PWT 6x16 is certified to NSF/ANSI Standard 60.

Maximum Usage is 100 mg/L

Clack Corporation

4462 Duraform Lane
 Windsor, Wisconsin 53598-9716 USA

Phone (608) 846-3010

Fax (608) 846-2586

Sales Fax (800) 755-3010

www.clackcorp.com

Form No. 2616
 Updated 5/05

FloMag® PWT 6x16 is a trademark and is manufactured by Martin Marietta Magnesia Specialties, LLC. Corosex® is a federally registered trademark of Clack Corporation. Corosex® is FloMag® PWT 6x16.

The information and recommendations in this publication are based on data we believe to be reliable. They are offered in good faith, but do not imply any warranty or performance guarantee, as conditions and methods of use of our products are beyond our control. As such, Clack makes no express or implied warranties of any kind with respect to this product, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. We recommend that the user determine whether the products and the information given are appropriate, and the suitability and performance of our products are appropriate, by testing with its own equipment. Specifications are subject to change without notice.

The information and recommendations given in this publication should not be understood as recommending the use of our products in violation of any patent or as a license to use any patents of the Clack Corporation.

The filter medias listed in this brochure do not remove or kill bacteria. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Clack will not be liable under any circumstance for consequential or incidental damages, including but not limited to, lost profits resulting from the use of our products.