REV 0421

Magnesia Oxide

Magnesia oxide is a special processed, hard, bead-like magnesia, adapted for use in filters to neutralize acidity by increasing the pH value.

By neutralizing the free carbon dioxide in water, Magnesia oxide can correct red water conditions and render it to a non-corrosive condition. It is used most effectively where pH correction is substantial or high flow conditions are in use. Magnesia oxide, being soluble to acidity, will have to be replenished periodically. Under certain low flow conditions, Magnesia oxide may overcorrect and create a basic condition.

Magnesia oxide can be effectively combined with calcite to combine the high flow neutralization properties of Magnesia oxide, along with the slower reacting low flow properties of calcite without getting potentially high basic properties due to over correction.

ADVANTAGES

- High degree of activity
- Speed of correction allowing high flow

PHYSICAL PROPERTIES

Color	grayish white
Density	90 lbs., per cu.ft.
Effective Size	1.27 m.m.
Uniformity Coefficient	1.48
Active Material (%)	84.90
Composition	MgO 97 +%

CONDITION OF OPERATION

1. Downflow service is satisfactory on waters with a hardness of less than five grains per gallon or where it is combined with Calcite at least 50/50. Upflow service is generally recommended with hardness exceeding five grains per gallon to prevent “cementing of the mineral bed”.
2. A gravel support bed is recommended
3. pH 4 to 6
4. Bed depth—24 - 30”
5. Backwash frequently to prevent possible cementing
6. Backwash bed expansion - 35%
7. Service rate 5 to 6 gpm but may be modified to adapt to local conditions

Magnesia oxide is available as Corosex^{R} from Clack.

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INNOVATIONS IN ION EXCHANGE

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