

## Premag M

### Expansion Cement Additive

#### General Description

PREMag M Cement Additive is a post set expansion additive with high reactivity developed for use at temperatures from 100-220°F (37.7-104.4°C). PREMag M Cement Additive can be used in freshwater slurries & salt slurries up to saturation, as well as in salt-saturated slurries at temperatures up to 300°F (148.9°C) when PREMag H Additive develops expansion too slowly.

PREMag M Cement Additive can be used in freshwater slurries, or salt slurries up to saturation. It can also be used in salt-saturated slurries at temperatures up to 300°F when PREMag M Additive develops expansion too slowly.

#### Features and Benefits

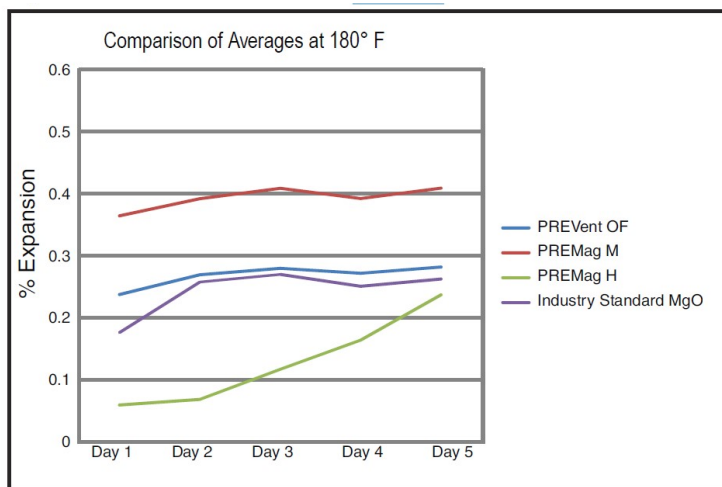
- Helps provides improved expansion over lower temperature products from 100° to 170°F.
- PREMag M Additive helps provide quicker expansion than PREMag H Additive at temp. from 170° to 220°F.
- PREMag M Additive can provide improved bonding and zonal isolation.
- Non-hazardous in normal working conditions

#### Applications

PREMag M can also be used as a pH buffer of aqueous drilling fluid systems up to 10.3. It is safer and more suitable than caustic soda for controlling pH in polymer systems, and also an alternative to lime for treatment of carbon dioxide contamination. Can be safer and more suitable than caustic soda for controlling pH in polymer systems

#### Testing Data

The graph below shows the averages taken across three expansion rings at 180° F. PREMag M shows the highest amount of expansion of all four additives tested at 180° F.



#### Typical Properties

- Specific Surface Area (m<sup>2</sup>/g) - 35
- Bulk Density (lb/ft<sup>3</sup>): Loose 40 / Tapped 58
- Specific Gravity - 3.56
- Absolute Volume - 0.0337

*Typical properties given do not constitute a supply specification.*

#### Packaging/Storage

PREMag M is packaged in sacks containing 50-lb (22.7-kg) net weight, 1000kg supersacks, & bulk.

Store in a dry area protected from moisture. Once bags are opened they must be sealed until all material is used. Material should be consumed within six months. Special packaging is available upon request.

#### Health and Environmental Data

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

We warrant our products to be of good quality and will replace or, at our discretion, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, RITEKS MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. Riteks shall have no other liability with respect thereto. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. The information provided herein is based on technical data that Riteks, Inc. believes to be reliable. Riteks, Inc. makes no representation or warranty as to the completeness or accuracy thereof and assumes no liability resulting from its use for any claims, losses, or damages of any third party. Recipients receiving this information must exercise their own judgment as to the appropriateness of its use and it is the user's responsibility to assess the material's suitability (including safety) for a particular purpose prior to such use.