Technical Data Sheet

Oilfield Solutions

Premag B

General Description

PREMag™ B pH buffer is used to provide alkalinity for all water based systems and is compatible with freshwater, brines, and brine polymer systems. PREMag B pH buffer will dissolve in water and raise the pH of an aqueous system to 10.3. At pH 10.3, no more PREMag B pH buffer will dissolve. The remaining undissolved product will dissolve if the pH starts to fall and thereby act as a pH buffer. PREMag B pH buffer can be safer to use than caustic soda.

Typical Properties

- Appearance Fine white powder
- Composition, (minimum % as MgO) 98
- Specific gravity 3.58
- Specific surface area 86m²/g

Typical properties given do not constitute a supply specification.

Features and Benefits

- Can be safer and more suitable than caustic soda for controlling pH in polymer systems
- Can reduce the potential for hydrolysis of polymers compared to use of caustic soda and lime
- Does not cause precipitates to form when added to calcium or magnesium brines

Applications

- PREMag B pH buffer can be used to increase the pH of aqueous systems up to 10.3
- Alternative to lime for treatment of carbon dioxide contamination

Recommended Treatment

- The normal treatment range of PREMag B pH buffer is 0.1-2.0 lb/bbl (0.3-5.7 kg/m³) in most fluids
- Note: Up to 3 lb/bbl (8.6 kg/m³) may be used in drill-in fluids

Packaging/Storage

PREMag B pH buffer 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.

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