

# BARABUF®

Alkalinity, pH, Hardness Control

Product Data Sheet

## Product Description

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

## Applications / Functions

- BARABUF 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

## Advantages

- 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

## Typical Properties

- |                                   |                     |
|-----------------------------------|---------------------|
| • Appearance                      | Fine white powder   |
| • Composition, (minimum % as MgO) | 98                  |
| • Specific gravity                | 3.58                |
| • Specific surface area           | 86m <sup>2</sup> /g |

## Recommended Treatment

The normal treatment range of BARABUF pH buffer is 0.1-2.0 lb/bbl (0.3-5.7 kg/m<sup>3</sup>) in most fluids

Note: Up to 3 lb/bbl (8.6 kg/m<sup>3</sup>) may be used in drill-in fluids

## Packaging

BARABUF pH buffer is packaged in sacks containing 50-lb (22.7-kg) net weight