

MAGNESIUM OXIDE

TREATING CHEMICALS



Description

MAGNESIUM OXIDE is used to provide alkalinity control for all water based systems and is compatible with freshwater, brines, and brine polymer systems. magnesium oxide dissolves in water to provide a pH of approximately 10.3. At this pH, no more magnesium oxide will dissolve with any remaining undissolved product dissolving if the pH falls. This creates a pH buffer that is safer to use than caustic soda.

Application

MAGNESIUM OXIDE can be used to increase the pH of aqueous systems and can also be used as an alternative to lime for treatment of carbon dioxide contamination. Its ability to act as a pH buffer results in it increasing the thermal stability of polymers.

Typical Physical Properties

Appearance: Fine off-white powder
 Specific gravity: 3.4 – 3.6
 Solubility in water: 0.086 g / L

Recommended Treatment

Typical treatment range of magnesium oxide is 0.3 – 5.7 kg / m³ (0.1 – 2.0 lb / bbl) up to 8.6 kg / m³ (3 lb / bbl) may be used in drill-in fluids. Pilot tests should be conducted in order to determine correct treatment.

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

Advantages

- Safer to use than caustic soda
- Increases the temperature range of polymers
- Economical
- Easy to use.

ASIA PACIFIC

Perth, Australia (Head Office)

T +61 8 9445 4000
 E amc@imdexlimited.com

Indonesia

T +62 (0) 21 759 11244

AFRICA

South Africa

T +27 (11) 908 5595

EUROPE

Germany

T +49 4402 6950-0

United Kingdom

T +44 (0) 1273 405 975

SOUTH AMERICA

Argentina

T +54 (9) 261 426 1116

Brazil

T +55 (47) 3404 5920

Chile

T +56 (2) 2589 9300

Peru

T + 51 (1) 322 8850

NORTH AMERICA

USA / Canada

T +801-364-0233

Mexico

T +52 (871) 169 2095