

# Genesys MG

Magnesium hydroxide Antiscalant

**G E N E S Y S**  
**I N T E R N A T I O N A L**

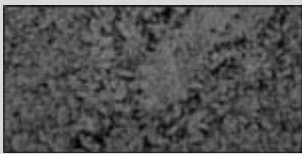
[www.genesysro.com](http://www.genesysro.com)

**The Complete Solution**

## Inhibits Scale formation



## Magnesium hydroxide Specific



- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Drinking Water Approval
- ✓ Compatible with all types of polyamide membranes
- ✓ Allows high recovery rates at elevated pH levels in second pass recovery systems
- ✓ Simple Test Method
- ✓ Inhibits common scalants
  - ▶ Calcium carbonate/sulphate
  - ▶ Barium/Strontium sulphate
  - ▶ Calcium phosphate
  - ▶ Magnesium hydroxide
  - ▶ Iron/Manganese
  - ▶ Silica

## Description

Genesys MG has been developed as an antiscalant for use in Reverse Osmosis and Nano-Filtration systems with waters having a high magnesium content. Genesys MG is also effective against calcium carbonate. Magnesium hydroxide fouling is not normally a problem in membrane systems because operating pH and temperatures are usually outside the levels at which magnesium hydroxide forms. However new applications, involving pH correction to enhance the rejection of boron, are becoming more commonplace and Genesys MG has been developed specifically for use in this technology.

Genesys MG is particularly effective in second pass recovery systems working at 80-90% recovery with an adjusted feed pH of 10.0-10.5.

## Application

Genesys MG should be dosed continuously to the feed water upstream of the high pressure pumping system, or cartridge filters, if used.

Typical dosage rates are 2 - 4mg/L.

Genesys International Staff will be pleased to provide advice on the most suitable dose rate for a particular water analysis. Genesys MG can be diluted and is fully miscible with water in all proportions.

## Health and Safety

Genesys MG is a non-hazardous, synergistic blend of phosphonates and carboxylic acids that are compatible with carbon steel and commonly used materials of construction. A material safety data sheet is available on request.

## Typical properties

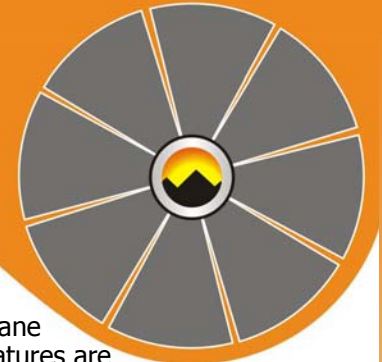
|                   |                   |
|-------------------|-------------------|
| Appearance:       | pale amber liquid |
| pH as supplied:   | 8.0 – 8.5         |
| Specific gravity: | 1.24 – 1.26       |
| Freezing point:   | < - 0°C           |

## Classification

CHIP: Not Classified | UN: Non Hazardous

## Packaging

Available in 25 kg kegs and 200 kg drums.  
Shelf life 12 months under normal conditions.



## For more information contact:

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