**Inhibits Scale formation****Prevents Iron Fouling**

- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Effective at LSI up to +2.6
- ✓ Excellent inhibitor for iron fouling
- ✓ Excellent silica antiscalant
- ✓ Drinking water approval from NSF, KIWA and UKDWI.
- ✓ Compatible with all types of polyamide membrane
- ✓ Replaces acid addition
- ✓ Inhibits common scales
 - ▶ Calcium carbonate/sulphate
 - ▶ Calcium phosphate
 - ▶ Barium/Strontium sulphate
 - ▶ Silica
 - ▶ Iron/Manganese

Description

Genesys LF has been developed as a broad spectrum liquid antiscalant for use in Reverse Osmosis and Nano-filtration systems. It is effective at preventing inorganic scale, particularly calcium carbonate, iron and silica thus reducing the frequency of membrane replacement and cleaning.

Genesys LF has proven to be effective at a Langelier Saturation Index (LSI) of +2.6 which means that systems can be designed and operated at their optimum recovery rates. By reducing the amount of feed water used and concentrate to be discharged, significant savings can be made to both capital and operational costs.

Application Guide

Genesys LF should be dosed continuously to the feed water upstream of the cartridge filters. Typical dosage rates are 2 – 4 mg/L. Under KIWA-ATA registration (K23267) the Genesys LF dose rate in the feed water should be less than 5 mg/L in potable water systems. The optimum dosage rate can be calculated using the Genesys Membrane Master® software. Genesys LF can be diluted and is fully miscible with water in all proportions.

Health and Safety

Genesys LF is an aqueous solution of neutralised phosphonic acid. It has been approved for use in potable water applications and does not contribute to assimilable organic carbon (AOC), which can act as source of nutrient for micro-organisms. Genesys LF is compatible with carbon steel and other commonly used materials of construction.

Classification

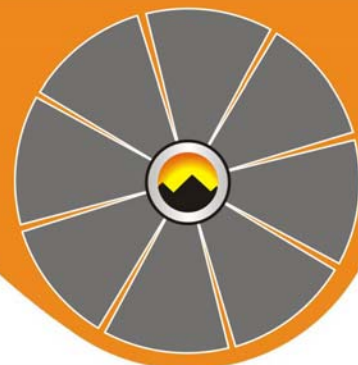
CHIP: Not Classified | UN: Non Hazardous

Typical properties

Appearance: straw coloured liquid
 pH as supplied: 9.8 - 10.2
 Specific gravity: 1.32 - 1.34
 Freezing point: < - 5°C

Packaging

Available in 25 kg kegs, 250 kg drums, 1,300 kg IBCs.
 The 'shelf life' is two years under normal storage conditions.

**For more information contact:****Genesys International Ltd.**

Unit 4, Ion Path, Road One, Winsford Ind. Estate,
 Winsford, Cheshire, CW7 3RG, UK
 Tel: + 44 1628 622 195
 E-mail: info@genesysro.com
www.genesysro.com

Genesys Latin America - Chile
 Genesys North America - USA
 Genesys Pacific - Singapore
 Genesys Membrane Products - Spain

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