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Genesys AP has been developed as a broad spectrum antiscalant for use in Reverse Osmosis and Nano-Filtration systems. It is highly effective at preventing calcium carbonate scale formation and iron fouling thus reducing the frequency of membrane cleaning and replacement.

Genesys AP has been proven to be effective at a Langelier Saturation Index of +2.6 allowing systems to be designed and operated at higher recovery rates.

Significant capital and consumable cost savings can be made by reducing the amount of feed water needed and reject water for disposal.

### Application

Genesys AP should be dosed continuously to the feed water upstream of the cartridge filter.

Typical feed water dose rates are 2-4 mg/L.

The optimum dosage rate can be calculated using the Genesys Membrane Master software. Genesys AP can be diluted and is fully miscible with water in all proportions.

### Health and Safety

Genesys AP is an aqueous solution of phosphonic acid, classified as non-toxic. It is corrosive to carbon steel so all pumps, pipework and tanks should be made from acid resistant materials.

A material safety data sheet is available on request.

### Classification

CHIP: Irritant | UN: Corrosive

### Packaging

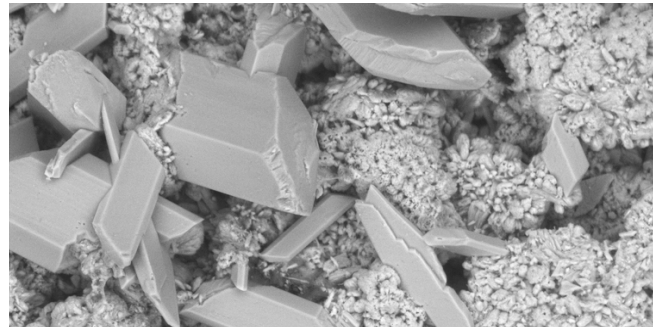
Available in 25 kg kegs and 250 kg drums.

Shelf life is 2 years under normal conditions of storage.

### Typical properties

Appearance: colourless liquid  
pH as supplied: < 1.5  
Specific gravity: 1.14 – 1.16  
Freezing point: < -2°C

## Genesys AP Acidic Broad Spectrum Antiscalant



Inhibits Scale Formation



Prevents Iron Fouling

- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Proven effectiveness at LSI up to +2.6
- ✓ Inhibits iron fouling
- ✓ Compatible with all polyamide membranes
- ✓ Allows high recovery rates
- ✓ No impact on AOC levels
- ✓ Replaces acid addition
- ✓ Inhibits common scales
  - Calcium carbonate/sulphate
  - Barium/Strontium sulphate
  - Silica
  - Magnesium hydroxide
  - Iron/Manganese

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