

**RoClean L403** is a low pH liquid cleaner designed to remove metal foulants such as iron, manganese, and aluminum as well as calcium carbonate scale deposits from thin film composite membranes. RoClean L403 is buffered to prevent the pH limits of a membrane being exceeded in the event of misapplication.

#### Performance

**RoClean L403 offers a variety of performance benefits:**

- **Compatible with the major membrane suppliers.**
- **Superior results in the removal of metal foulants such as iron manganese & aluminum, especially when compared to generic formulations.**
- **Contains a specialised blend of buffers, low foaming surfactants, chelants and other components to dissolve metal deposits.**
- **Highly buffered to resist pH changes during the cleaning process.**
- **Can be used in conjunction with other applicable cleaners as shown in the Avista cleaner selection guide.**

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#### Instructions for Use:

For moderate to severe fouling, RoClean L403 should be applied at a nominal strength of 2% w/v. For milder fouling, or where frequent cleaning is employed, satisfactory results may be achieved at 1% w/v.

The cleaning solution should be recirculated at the flow rate recommended by the membrane manufacturer, taking care not to exceed the guidelines for pressure. Avista Technologies recommend the following flowrates for cleaning spiral wound elements:-

Element Diameter	Flowrate
4" (100mm)	40 lpm
8" (200mm)	150 lpm

#### Temperature:

Where possible, apply the cleaning solution at the maximum temperature recommended by the membrane manufacturer.

#### Packaging:

RoClean L403 is available in 20 Kgs pails. Other packaging is available on request.

Property	Analysis
Appearance	Pale amber liquid
pH at 2% solution	2.5 – 3.5
Specific Gravity	1.3 ± 0.05