

**RoClean P111** is a powdered cleaner designed to remove silt and organic foulants such as colloidal silica, clays, organic colour and bacterial slime from thin film composite membranes. RoClean P111 is buffered to prevent the pH limits of a membrane being exceeded in the event of misapplication. RoClean P111 should not be used on cellulose acetate membranes, as irreversible damage can occur.

#### Performance

**RoClean P111 offers a variety of performance benefits:**

- **Compatible with the major membrane suppliers.**
- **Superior results in the removal of organic and colloidal foulants, especially when compared to generic formulations.**
- **Contains a specialised blend of buffers and other components to dissolve organic foulants, and disperse colloidal particles.**
- **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 P111 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 P111 is available in 20Kg pails. Other packaging is available on request.

Property	Analysis
Appearance	Granular White Powder
pH at 2% solution	10 - 11
Density	1.0 – 1.1 kg/ litre