

Avista Technologies provide a wide range of specially formulated cleaners to tackle all common membrane foulants. These foulants include metals, inorganic scales, silt, organics and biological material. The table below summarises the application of each product with more detailed information available on the individual product datasheets.

All products are applied as dilute solutions made up with permeate or good quality potable water. All products are readily mixed / dissolved for use. The solutions are optimally applied heated to the maximum temperature and re-circulation rate specified by the membrane type.



| For use on :        |   | Cellulose | Fouling :                      |                   |                 |                |      |            |  |
|---------------------|---|-----------|--------------------------------|-------------------|-----------------|----------------|------|------------|--|
| Acetate Membranes   |   |           |                                |                   |                 |                |      |            |  |
| For use on :        |   |           | Metals                         |                   | Scale           |                | Silt | Organics   |  |
| Polyamide Membranes |   |           | Iron, Manganese and Aluminium. | Calcium Carbonate | Sulphate Scales | Non Biological |      | Biological |  |
| Product Name        |   |           |                                |                   |                 |                |      |            |  |
| RoClean L102        | x | x         |                                |                   |                 |                |      | x          |  |
| RoClean L211        | x |           |                                |                   | x               | x              | x    | x          |  |
| RoClean L212        | x |           |                                |                   |                 | xx             | x    | x          |  |
| RoClean L403        | x | x         | x                              | x                 |                 |                |      |            |  |
| RoClean L404        | x | x         | x                              | x                 |                 |                |      |            |  |
| RoClean P507        |   | x         |                                |                   |                 | x              | x    | x          |  |
| RoClean L607        |   | x         |                                |                   |                 | x              | x    | x          |  |
| RoClean L811        | x |           |                                |                   | xx              |                |      |            |  |
| RoClean P111        | x |           |                                |                   | x               | x              | x    | xx         |  |
| RoClean P112        | x |           |                                |                   |                 | x              | x    | xx         |  |
| RoClean P303        | x | x         | x                              | x                 |                 |                |      |            |  |
| RoClean P507        |   | x         |                                |                   |                 | x              | x    | x          |  |
| RoClean P703        | x | x         | xx                             |                   |                 |                |      |            |  |
| RoClean P911        | x |           |                                |                   |                 | xx             | x    | x          |  |

x = Effective

xx = Optimum

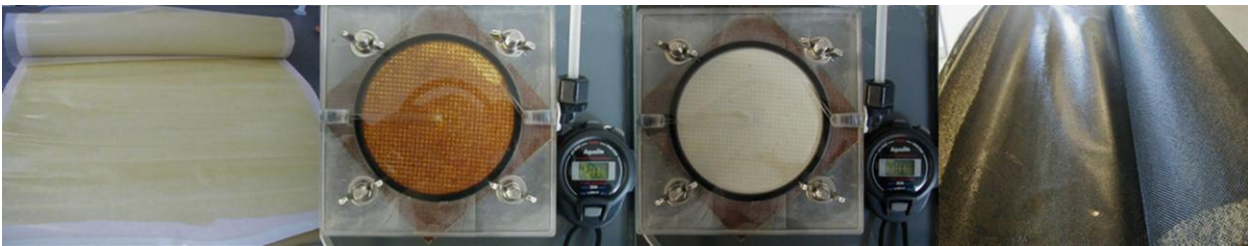
Avista Technologies technical staff are always available to advise on product choice for each application. Cleaning trials can also be carried out in our off-site 'OSCAR' facilities or on our cell test equipment to demonstrate effectiveness prior to application on site. This can be helpful in determining whether a broad-spectrum cleaner or targeted cleaner is most effective in removing the foulant on the membrane.



## Product Approvals

For drinking water applications many of the products have received approvals from the US National Sanitation Foundation (NSF) under NSF/ANSI Standard 60 and from the Secretary of State (in the UK). Please contact Avista for an up to date list of products which can be applied to drinking water systems.

To facilitate effluent discharge a number of variations on the products are available for installations where EDTA or phosphate cannot be discharged.



See Also:

Individual product datasheets for properties, packaging and application data.

Avista Advisor 3 for selection of products and calculation of quantities to apply.

Chemical application advice for clean in place design advice and chemical selection advice.

Avista Technologies can carry out cell test cleans or full membrane cleans to determine which product provides the best cleaning performance. Site supervision is also available for clean in place activities.

Product approvals have been granted by water regulators, membrane manufacturers and industry bodies. Please contact your local representative for up to date information.

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