

Anti Microbial Water Hose

The NeuVend SITM Lined Flexible Hose

In order to meet the stringent demands for delivering potable water, we have combined our market leading, WRAS approved, NeuVend flexible hose with Biomaster Antimicrobial Protection.

NeuVend SI™ has been designed for the critical applications where there is an enhanced risk to human health from microbial organisms within the potable water supply system. There have been increasing concerns in recent years regarding the potential for leaching of chemicals into water supplies when using certain types of flexible hose. Where this occurs there is a greater risk of bacteria forming biofilms which can harbour various harmful organisms including Legionella and Pseudomonas.



What is Biomaster Antimicrobial Protection?

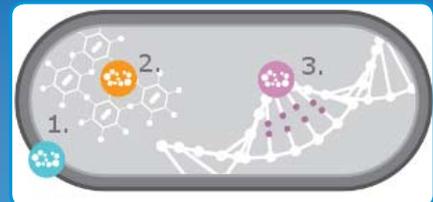
Biomaster Protection is an antimicrobial silver based additive added directly into NeuVend SI™. Biomaster Protection is dispersed throughout the NeuVend SI™ polymer, will not wash off and provides effective protection from the growth of unwanted bacteria.



How does Biomaster work?

Biomaster deactivates a cell with three different actions:

1. Silver Ions bind to the cell surface, disrupting the cell wall and preventing cell growth
2. The Silver Ions are attracted to thiol groups in cell enzymes, preventing the bacterium producing energy.
3. Silver Ions interrupt the cell DNA, preventing DNA replication and new cell formation.



This three stage mode of action does not allow bacteria cells to develop resistance, making it future proof and particularly effective against antibiotic resistant species such as MRSA.

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Temperature

Temperature range -20°C to $+85^{\circ}\text{C}$

Construction

The standard hose has a natural liner, a black inner layer, which acts as an effective light barrier, and a white cover. Other colours can be made to customer requirements.

NeuVend SITM Lined Flexible Tap Tails

Our flexible Tap Tails are made from our NeuVend SI™ Liner which is then overbraided with stainless steel and fixed on both ends with your required fitting.

The NeuVend SI™ liner itself is manufactured from a blend of polyolefin based materials lined with smooth polyethylene internal surface all containing a Biomaster antimicrobial additive. The NeuVend SI™ liner and stainless steel overbraiding combination results in a Tap Tail that has excellent flexural and working pressure properties.

Available in a wide variety of lengths with a number of different fittings, including all the standard length and fitting options, we can make these Tap Tails to exactly suit your requirement.

Testing and Applications

NeuVend SI™ Liner has been tested in accordance with BS6920 and has achieved WRAS approval for the conveyance of cold and hot potable water up to 85°C . WRAS approval number 1202505 for the NeuVend SI™ liner applies.

It is suitable for use in all potable water supply applications but is especially recommended in areas such as hospitals, dental clinics, nursing and care homes, HVAC, aviation & leisure where infection control is critical. In these cases the additional Biomaster Antimicrobial Protection properties offer a massive benefit when compared to standard products.

In independent tests NeuVend SI™ with Biomaster Protection has been proven to be effective against Pseudomonas, E.coli, Legionella and MRSA among many other harmful organisms and is especially effective where there is infrequent use of the water supply in warm conditions.

Environmentally Friendly

NeuVend SI™ Tap Tails are 100% manufactured in the UK, reducing your carbon footprint compared to some imported products. In addition to this, unlike PEX and EPDM Liners, NeuVend SI™ liner is 100% recyclable therefore meeting the needs of any environmentally conscious end users.

Custom Manufacture Options

We can also offer a Tap Tail with a wipe clean anti-microbial PVC sleeve for use in hospital and other environments with more rigorous cleaning requirements, offering the benefit of a flexible product without some of the cleaning problems associated with open mesh.

NEOCARE™



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