

SUPASpun II R31

Municipal Water Filter Cartridge



DWI Regulation 31 requires that only filtration products approved by the Secretary of State can be used in the supply of drinking water. To help water supply companies meet this legal requirement Amazon Filters have introduced **SupaSpun II R31** filters which are specifically designed and qualified for use in the purification and supply of public water. These high performance depth cartridges have a precision graded porosity that provides absolute ratings, high dirt holding capacity and excellent flow rates. They are available in a wide choice of removal ratings and therefore can be used in a range of applications from removal of Cryptosporidium oocysts to reduction of turbidity.

Potable Water Approvals

SupaSpun II R31 filters comply with a range of potable water regulations and their use can help users meet legal requirements.

Regulation 31 of the Water Supply (Water Quality) Regulations

The filters are approved in UK, Scotland and Wales for use in public water supplies and are included in the UK Secretary of State's List of Approved Products for use in connection with the



supply of water for drinking, washing, cooking & food production.

Water Regulations Advisory Scheme (WRAS)

Filters have passed the UK Water Bylaws /WRC 'Full Test of Effect on Water Quality (BS6920:Part 3) – Cold Water Use' and are approved for use in potable water (Approval No. 1202503)

Cryptosporidium Removal

SupaSpun II R31 filters rated at 1µm have been tested by a DWI approved independent laboratory and exhibit

>99.998% retention of Cryptosporidium oocysts, therefore substantially exceeding the NSF 53 standard for removal of Cryptosporidium.

SupaSpun II R31 Features

During manufacture fibres are blown continuously onto a central support core, with fibre diameters controlled to produce different pore sizes throughout the extrusion process. All the layers are inter-linked to offer maximum support while ensuring that the high void volume is maintained. The fibre density is increased towards the cartridge central core giving true depth filtration.

- Available in absolute ratings from 0.3 to 180µm
- Consistent reliable performance

Unique Construction

- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- One piece high strength support core with the end cap welded direct to the core for extra security and strength
- Elements are available in one piece construction up to 1524mm (60") in length, either double open ended or with most common end cap fittings

Features and Benefits

- Meets key municipal water regulatory requirements so assists water companies in meeting their compliance obligations
- Range of removal ratings provides optimum performance in a wide range of applications
- **SupaSpun II R31** filters rated at 1µm provide effective control of Cryptosporidium oocysts
- Increased void volume giving high flow rates and low initial pressure losses
- Thermal bonding process minimises media migration and ensures minimal extractables
- Identification data embossed on every cartridge
- Cartridges do not require flushing prior to use so can be brought into full service immediate
- **All individual packing bags are anti static**

Industries and Applications

Potable Water

- Cryptosporidium control
- Particulate removal
- Membrane protection
- Turbidity reduction
- Desalination plants
- Point of entry into households



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SupaSpun II R31 Technical Data

Dimensions

Outside Diameter: 64mm
Core Diameter: 28mm

Sterilisation and Sanitisation

Steam: 121°C for 240 Cycles of 60 mins each
135°C for 8 Cycles of 30 mins each
Hot Water: 90°C for 30 mins (0.2 bar Δp max)

Maximum Operating Conditions

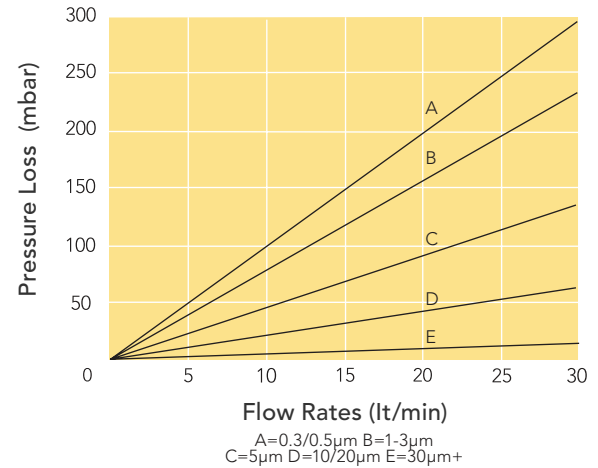
Temperature 80°C

Recommended change-out differential pressure: 2.5 Bar

Maximum ΔP	PP Media PP Core
@ 20°C	4.0
@ 50°C	1.5
@ 80°C	0.25

Product validation guide available on request. All **SupaSpun II R31** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow Rates for Water
(10" Element)



Ordering Guide

04P	P	005 -	20	A	H	A	R31
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
04P - Polypropylene	P - Polypropylene	00X - 0.3µm 000 - 0.5 001 - 1.0 003 - 3.0 005 - 5.0 010 - 10 020 - 20 030 - 30 050 - 50 070 - 70 090 - 90 120 - 120 150 - 150 180 - 180	05 - 125mm 09 - 251 10 - 254 13 - 332 20 - 508 30 - 762 40 - 1016 60 - 1524	N - None A - Code A B - Code B* ¹ S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	N - None H - EPDM	A - Amazon	R31

Example: 04PP005-20AHAR31 = Polypropylene media and core, 5µm rating, double length 508mm (20") long, Code A connections, EPDM seal
*¹ Code B - to fit Amazon 50 Series housings only

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