

# SupaSpun II Mn R31

## Manganese Removal Cartridge



The SupaSpun II Mn R31 has been specifically developed to provide a cost-effective solution for manganese removal down to below 1ppb where capital investment and operational costs of traditional sandfilters are not viable.

Working in close collaboration with municipal water suppliers the unique melt-blown fibre construction of the SupaSpun II Mn R31 has been shown to be an extremely effectively substrate for initial seeding of Mn(IV) and subsequent acceleration of removal through catalytic action.

### Filter Construction

The varying polypropylene fibre diameters and packing density throughout the filter result in a design optimised for manganese retention and volumetric throughput. With over 30 years of experience in the production of filters using the melt blowing process the consistency and specification of the structure is guaranteed.

### Water Quality

Reducing levels to below 1ppb at the water treatment works (WTW) may seem unnecessary but many studies have shown that even small amounts of Mn(II) in the water distribution network can precipitate out through changes in pH etc, with subsequent accumulation and sloughing off pipework walls to create discolouration and flavour taints at the point of use. Installing the SupaSpun II Mn R31 will significantly reduce the incidence of manganese accumulating in the distribution network.

### Potable Water Approvals

SupaSpun II Mn 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.



## Features and Benefits

- DWI approved and hence meets key municipal water regulatory requirements
- Optimised meltblown fibre construction that accelerates manganese precipitation and removal
- Installation costs <25% of traditional sandfilters meaning smaller boreholes can be brought on stream to cater for fluctuating demands
- High volume throughputs and flowrates in conjunction with multi-round bespoke filter housings and filters up to 60" in length
- Easily retrofitted into existing systems
- Rental skid systems available with SupaSpun II Mn



## Industries and Applications

- Potable Water** • Manganese removal in Municipal Water



# SupaSpun II Technical Data

<b>Dimensions</b>	<b>PP</b>
Outside Diameter:	64mm
Core Diameter:	28mm

## Sterilisation and Sanitisation\*1

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	04PP:	80°C
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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 Mn R31 cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Sizing information

The SupaSpun II Mn R31 can reduce manganese concentrations to <1 ppb when flowed up to 8l/min/10" filter.

## Ordering Guide

04P	P	MNL-	20	N	N	A	R31
Media	Core/Assembly		Length	End Caps	Seal	Branding	Options
04P – Polypropylene	P - Polypropylene		05 - 125mm 09 - 251 10 - 254 13 - 332 20 - 508 30 - 762 40 - 1016 60 - 1524	N - None A - Code A B - Code B*2 D - Code D S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 0 - Code 0	N - None H - EPDM	A - Amazon	R31

Example: 04PPMNL-20AHAR31 = Polypropylene media and core, double length 508mm (20") long, Single open connections, EPDM seal  
\*2 Code B - to fit Amazon 50 Series housings only



This product is made from a sustainable source of polypropylene.

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