

# Resin For Water Treatment

## Which Type Best Suits Your Need?

SPECTRUM's portfolio includes resins for softening, heavy metal removal, deionisation and exhaustion indicating resin. All resins are compatible with both the Pressure Vessels and Empty Cartridge Shells, so choosing the right media for your requirements becomes even easier. From the most popular general-purpose deionising resin (SRDI) to specially selected granular carbon these medias provide an economic inline solution to water treatment. Below is the detailed overview, typical applications and technical specification being available for convenience.



### Technical

View Resin Data Sheets  
[www.fieder.co.uk/resininfo](http://www.fieder.co.uk/resininfo)



## Softening SRSO

### Technology

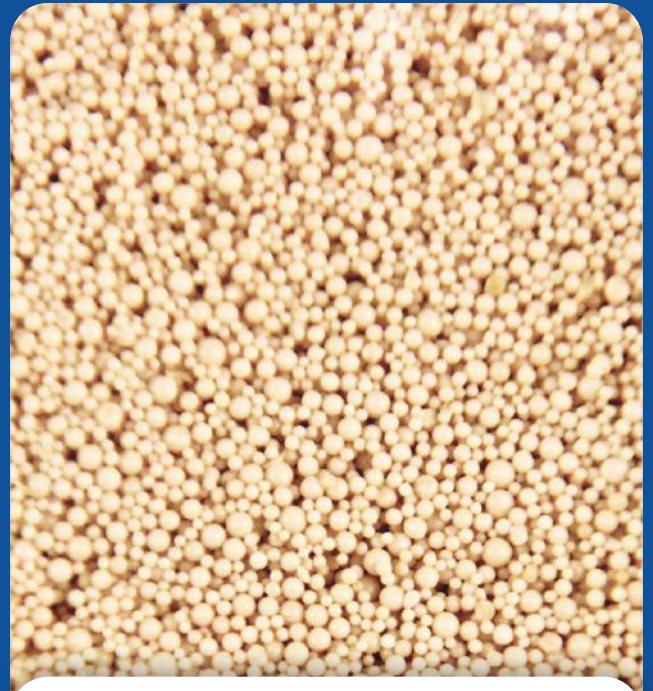
Specifically targeting scale forming ions, such as calcium and magnesium, SRSO has been pre-treated and rinsed to eliminate taste and odour elution while ensuring high ion exchange capacity. This reusable resin is simply regenerated using a brine solution.

### Applications

Designed for use in commercial and industrial water softening systems, SRSO provides protection for varied equipment including steam ovens, commercial boilers, and reverse osmosis systems. SRSO is also suitable for use in non-regenerable cartridges for protection of low volume humidification, medical equipment and food service machines.

**Capacity** (per litre of media) **55,000 mg**

Order Code	Weight (kg)
SRSO-RESIN-25L	20



## Heavy Metal Removal SRHM

### Technology

SRHM provides specific selectivity for heavy metals, which can have harmful effects on health as well as interfering with sensitive manufacturing processes. Reducing these contaminants below drinking water standards, SRHM also offers excellent capacity for bicarbonate hardness.

### Applications

This resin is typically used in non-regenerable cartridges to reduce levels of metals such as zinc, lead, and chromium. With the ability to reduce hardness without exchanging sodium, SRHM is ideal for use in smaller pressure vessels in Calcium Treatment Units (CTUs).

**Capacity** (per litre of media) **100,000 mg**

Order Code	Weight (kg)
SRHM-RESIN-25L	20

# How to Calculate Resin Life

Use this simple calculation to work out how much water your resin system will treat.

$$\text{Resin Life} = (\text{Resin Capacity (mg/l)} \times \text{Volume (l)}) \div \text{Feedwater Quality (mg/l)}$$



## Example 1

Mains water feeding SV-FK-844 with 25L of SRDI

$$\text{Resin Life} = (30,000 \text{ mg/l} \times 25\text{l}) \div 250\text{mg/l}$$

**3,000 litres**

## Example 2

RO feeding SV-FK-844 with 25L of SRDI

$$\text{Resin Life} = (30,000 \text{ mg/l} \times 25\text{l}) \div 2.5\text{mg/l}$$

**300,000 litres**



Alternative Option Available  
Colour Changing SRDI-IND

## Deionising SRDI

### Technology

Deionisation (DI) is the process in which almost all dissolved ions (or Total Dissolved Solids) are reduced, creating a source of pure water (down to 0.1µS/cm). Water of this quality can be used as the final product or as an ingredient in various applications.

### Applications

Producing water with little to no dissolved contamination, SRDI is employed as the final polishing stage in water treatment systems. Used either in cartridge form for low volume demand such as counter top autoclaves, or in larger vessels suitable for glass washing, pharmaceutical, printed circuit board and other critical applications.

**Capacity** (per litre of media) **30,000 mg**

Order Code	Weight (kg)
SRDI-RESIN-25L	18

## Deionising PRDI

### Technology

Manufactured under exacting specifications, this Nuclear Grade resin has lower residual metals and TOC (Total Organic Carbon) than the SRDI, resulting in the production of ultra-pure water with a conductivity down to 0.055µS/cm.

### Applications

PRDI can be used to produce ultra-pure water with low conductivity / high resistivity (18.3 MΩ). This water, almost in its purest form can be used for radiation wastewater treatment, manufacture of pharmaceutical products, semiconductors and condensate polishing.

**Capacity** (per litre of media) **25,000 mg**

Order Code	Weight (kg)
PRDI-RESIN-25L	18

