



# ABSORB

## Water Treatment Media Specialist

**Filter Sand**

**Nozzles**

**Filter Floors**

**Installation**

Manufacturer & Importer of Filter Media

Distributor of KSH Filter Nozzles & Floors

Get in touch 07 829 5060

452b Tauwhare Road, Matangi, Hamilton 3284, New Zealand

e. [sales@absorb.nz](mailto:sales@absorb.nz) | w. [absorb.nz](http://absorb.nz)

# A few of our clients



...and our commitment to Health & Safety



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# What we offer

## Water Treatment

**We supply filter sand, filter nozzles & filter floors.**



Our products meet drinking water standards for New Zealand.

Absorb filter sand is suitable for contact with potable water and is NSF61 compliant.

# What we do

**We manufacture, we supply, and we install**

Filter Sand, Filter Nozzles & Filter Floors almost anywhere.



# What's inside



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# Filter sand

Absorb will screen sand to fit your needs, please ask.

Our sub-angular to rounded sand particles provide the ideal balance of filtration surface area and tight packing, ensuring optimal porosity and permeability.

Available in 20 kg bags, 1-ton bulk bags, or custom quantities on request.



coarse sand



coarse sand



fine sand



fine sand

Photo's are not to scale

## QFS1 Silica Sand

Size:	1.13 - 2.46 mm
Uniformity:	< 1.5
Weight Volume:	1582 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.1% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.64

## FS1 Silica Sand

Size:	1.20 - 2.40 mm
Uniformity:	< 1.5
Weight Volume:	1220 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.1% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.64

## QFS2 Quartz Sand

Size:	0.57 - 1.13 mm
Uniformity:	< 1.5
Weight Volume:	1266 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.7% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.64

## FS2 Filter Sand

Size:	0.60 - 1.20 mm
Uniformity:	< 1.5
Weight Volume:	1351 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.1% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.64





# filter sand

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*super fine sand - perfect for artificial turf*



*micro fine - flocdrop*

Photo's are not to scale

## FS3 Filter Sand

Size:	0.30 - 0.60 mm
Uniformity:	< 1.5
Weight Volume:	1370 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.1% Silica (SiO <sub>2</sub> )

## FlocDrop for Wastewater

Size:	Microsand
Uniformity:	< 1.5
Weight Volume:	1400 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	99.7% Silica (SiO <sub>2</sub> )

The micro-sand, called FlocDrop, enhances the formation and settling of flocs, leading to high treatment efficiency in a compact and versatile system.



# pea metal

Our smooth, black-grey pea metal is formed over thousands of years in New Zealand. Its rounded, elongated shape makes it ideal as a stable support layer for granular filter media in water treatment. Available in 20 kg bags, 1-ton bulk bags, or as required.



*fine rock*

## PM3 Pea Metal

Size:	3 - 5 mm
Uniformity:	< 1.5
Weight Volume:	1587 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	75% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.65



*medium rock*

## PM2 Pea Metal

Size:	5 - 10 mm
Uniformity:	< 1.5
Weight Volume:	1618 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	> 75% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.65



*coarse rock*

## PM1 Drainage

Size:	10 - 20 mm
Uniformity:	< 1.5
Weight Volume:	1600 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	> 75% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.65



*coarse rock*

## PM0 Drainage

Size:	> 20 mm
Uniformity:	< 1.5
Weight Volume:	1681 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	> 75% Silica (SiO <sub>2</sub> )
Specific Gravity:	2.65

Photo's are not to scale



# specialty product

Our products are available in 20kg, 1-ton bulk bags or as required.

## Garnet

*sharp angular granules*

Our garnet is a deep-brownish red angular granule. A natural almandite garnet known for its natural hardness, durability and abrasion resistance. A natural, chemically inert mineral, free of toxic metals, used as a support layer for granular filter media used in water treatment.

Size:	1.2 - 3.0 mm
Size:	2.4 - 4.8 mm
Weight Volume:	2100 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	> 98% Garnet

*Imported Product - Subject to lead time*

## Bayoxide E33

*Potable Water*

New Zealand Distributor

*angular granules*

Bayoxide E33 is a technical iron oxide absorber in granular form, used for the removal of arsenic and other ions from potable water.

Size:	0.31 - 2.0mm
Uniformity:	< 1.6
Bulk Density:	0.515 kg / L
Weight Volume:	1000 kg / 1940 m <sup>3</sup> + or - 3%
Mineral Composition:	> 70% Fe <sub>2</sub> O <sub>3</sub> content

*Imported Product - Subject to lead time*

*Bayoxide E IN 20 and E IN 30 are available for use in non-potable water reducing phosphates in aquarium water, both fresh and salt water. For more information, contact Absorb.*



*Photo's are not to scale*

## Greensand Plus

New Zealand Distributor

*nodular granules*

Greensand Plus is a blackish-green filter media used for removing soluble iron, manganese, hydrogen sulfide, arsenic and radium from groundwater supplies.

Size:	0.3 - 0.35 mm
Uniformity:	< 1.6
Weight Volume:	1445 kg / m <sup>3</sup> + or - 3%
Mineral Composition:	Solid silica sand core, with thermally bonded coating of manganese dioxide.

*Imported Product - Subject to lead time*





# specialty product

Silica sponge is effective in removing smaller suspended particles and solids from water. It is highly porous, with nanoscale-sized pores. These pores trap particles as water passes through.

## SS1 Silica Sponge

*medium pumice - alternative to anthracite*

Size: 1.13 - 2.46 mm  
Uniformity: < 1.6  
Weight Volume: 885 kg / m<sup>3</sup> + or - 3%  
Mineral Composition: 99.8% Silica

*New Zealand Product*

## SS2 Silica Sponge

*fine pumice - alternative to anthracite*

Size: 0.57 - 1.13 mm  
Uniformity: < 1.6  
Weight Volume: 885 kg / m<sup>3</sup> + or - 3%  
Mineral Composition: 99.8% Silica

*New Zealand Product*

## Anthracite

*hard coal*

Anthracite is a chemically inert filtration material ideal for removing fine suspended solids. Used alone or as a support layer, it enhances filtration efficiency and helps retain finer media within the filter bed.

Size: 0.6 - 0.8 mm  
Uniformity: < 1.6  
Weight Volume: 1400kg / m<sup>3</sup> + or - 3%  
Mineral Composition: 95% Carbon

*Imported Product - Subject to lead time*



Photo's by Grant Gosselin





# Filter Floors

*for new or retrofit installations*

Absorb is the exclusive New Zealand distributor of Cadar Monolithic Filter Floors. Unlike other suspended filter floor systems there is no risk of degradation or structural failure, as the system is 'cast in-situ' becoming part of the surrounding structure.

Lightweight and easy to install yet extremely strong.

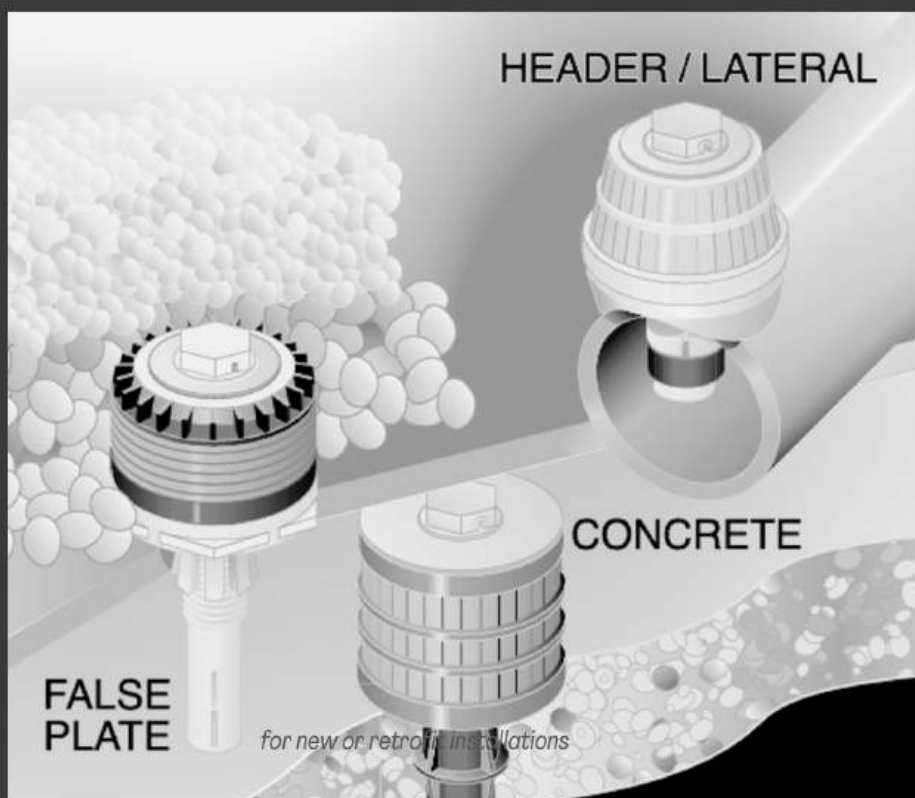
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*monolithic corrugated panel filter floor*



*monolithic flat panel filter floor*





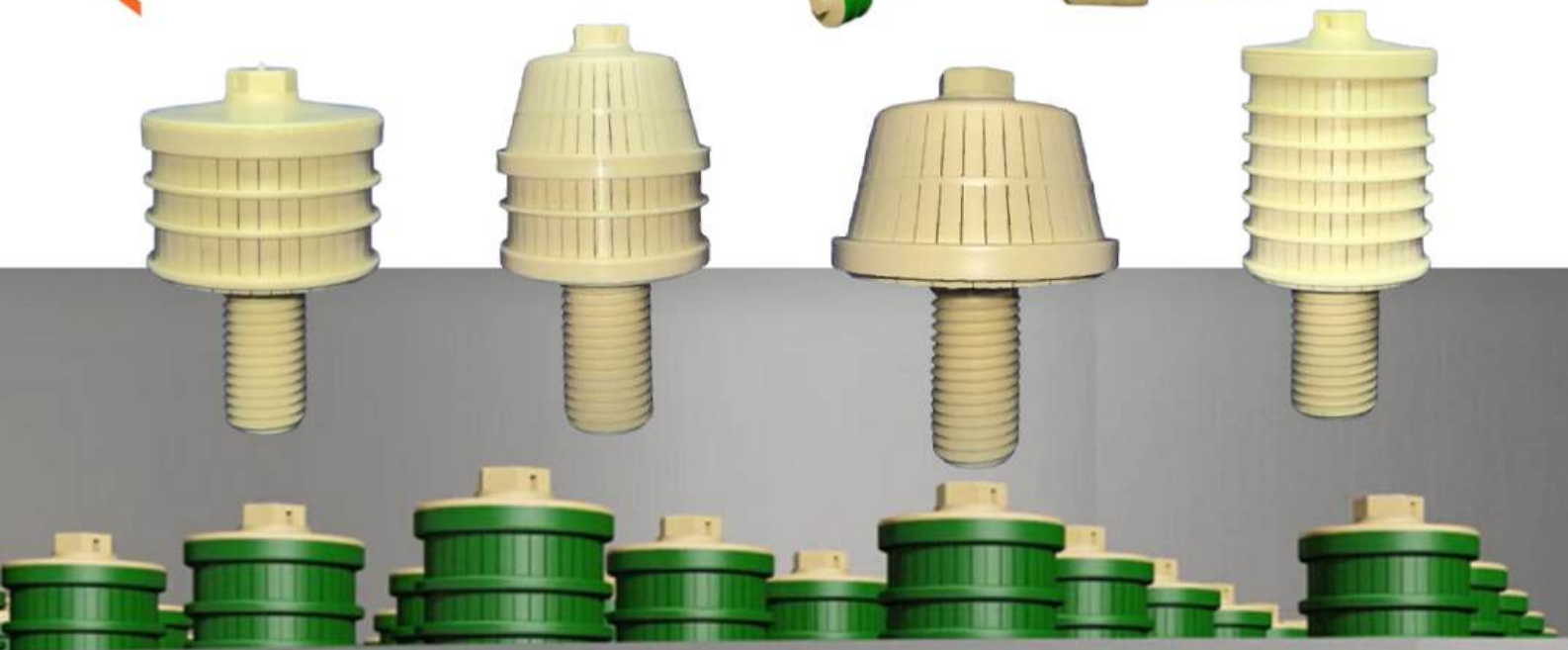
# Filter Nozzles

Absorb is the exclusive New Zealand distributor of KSH nozzles.

We provide instant access to the largest range of nozzle types (polypropylene, glass fibre-reinforced polypropylene, kynar, or stainless steel), slot size, air scour tubes, flow characteristics, adapters and accessories.

We'll provide you with specifications and accurate information about nozzles for any treatment or filtration application. Technical assistance is simply a phone call away.

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# Installation



1. Remove old filter media.



2. Repair or rebuild the filter.



3. Clean filter, supply and install nozzles



4. Supply pea metal



5. Supply sand media



6. Test and bring filter online



# ABSORB

A trusted supplier and manufacturer of nozzles, filter floors, and media for high-performance dual media rapid sand filters.



## Chemical Oxidation

1. Homogeneous  $\text{Fe}^{2+}$  oxidation
2. Heterogeneous  $\text{Fe}^{2+}/\text{Mn}^{2+}$  oxidation
3. Biological oxidation
  - Nitrification
  - Microbial  $\text{Fe}^{2+}$  oxidation
  - Microbial  $\text{Mn}^{2+}$  oxidation

This type of filter uses a combination of physical trapping, chemical reactions, and helpful bacteria to remove impurities from water – especially iron, manganese, and ammonia – making it safer and cleaner for use.

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