G1 Aqua
R-Tech Systems & Services

2026 edition

Treatment chemicals and media

Anti-scalant, activated carbon, anthracite, activated alumina and manganese dioxide.



Manganese Dioxide (MnO2) Filter Media



Activated Alumina Balls (Fluoride Removal)



RO Anti-Scalant (Liquid)



Anthracite Filter Media

Made in Lucknow since 2004
ISO 9001:2015

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Treatment chemicals and media

Anti-scalant, activated carbon, anthracite, activated alumina and manganese dioxide.



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Manganese Dioxide (MnO2) Filter Media

Granular manganese dioxide media for iron removal filters. It speeds up the oxidation of dissolved iron and manganese so they can be filtered out, leaving clear water without yellow stains or a metallic taste.

- Removes dissolved iron and manganese, and helps with the rotten-egg smell of hydrogen sulphide.
- Acts as a catalyst, so it is not used up quickly and lasts for years with regular backwash.

Removes	**Iron, manganese**	Form	**Granules**
Particle size	**0.4–1.2 mm**	Packing	**25 kg bag**
Grade	**Water treatment grade**		



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Activated Alumina Balls (Fluoride Removal)

Activated alumina balls, 2–5 mm, used as a filter media to remove fluoride and arsenic from drinking water. They suit homes, hand pumps and community filters, and can be regenerated and reused.

- Strongly prefers fluoride over other ions, so it removes fluoride even from water with other salts.
- Also removes arsenic, a common problem in some groundwater.

Removes	**Fluoride, arsenic**	Particle size	**2–5 mm**
Form	**Spherical balls**	Contact time	**At least 5 minutes**
Regeneration	**Caustic soda, then dilute acid**	Packing	**25 kg bag**



RO Anti-Scalant (Liquid)

A liquid anti-scalant dosed into RO feed water to stop hardness and silica from forming scale on the membranes. It keeps output steady, cuts cleaning and makes membranes last longer.

- Stops calcium, magnesium and silica scale from building up on RO membranes.
- Keeps output and pressure steady between cleanings.

Form	**Liquid**	Grade	**Technical grade**
Typical dose	**2–5 ppm**	Packing	**25 kg and 50 kg cans**
Made in	**India**		

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Anthracite Filter Media

Graded anthracite coal granules used as the top layer in dual-media filters. They hold more dirt than sand alone, so filters run longer between backwashes and lose less pressure.

- Removes suspended particles, cloudiness and some organic matter.
- Lets a filter run longer between backwashes, with less pressure loss.

Form	**Granules**	Particle size	**0.8–1.6 mm**
Packing	**25 or 50 kg bags**	Removes	**Suspended solids, turbidity**

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Powdered Activated Carbon (PAC)

Fine, black powdered activated carbon that removes colour, odour, taste and organic matter from water and wastewater. Supplied in 25 kg HDPE bags, with moisture below 5%.

- Removes colour, bad taste and odour, and many dissolved organic compounds.
- Fine powder that mixes easily into water as a slurry and works fast.

Form	**Powder**	Packing	**25 kg HDPE bag**
Moisture	**Under 5%**	Iodine value	**About 800 mg/g**
Removes	**Colour, odour, taste, organics**		

Treatment chemicals and media

Supplied in bags, cans or drums, with help working out the dose. Ask for grade and packing.

Chemical	Form	What it does
Coagulants	Powder, lumps or liquid	Fine dirt in water carries a charge that keeps the particles apart. A coagulant such as alum cancels it, so they stick together and settle.
Poly Aluminium Chloride PAC	Powder or liquid	A stronger, quicker coagulant than alum. It works over a wider pH range and leaves less sludge.
Flocculants Polyelectrolyte	Powder or liquid	Long-chain polymers that pull small clumps into big, heavy flakes that sink fast.
Activated Carbon Powder PAC	Powder, 25 kg bags	A fine black powder full of tiny pores that soak up colour, smell and bad taste.
Anthracite	Granules	Hard coal granules that sit on top of sand in a filter. They catch the bigger dirt first, so the filter runs longer between backwashes.
Manganese Dioxide MnO_2	Granules	Dark granules that turn dissolved iron and manganese into solid specks the filter can hold back.
Activated Alumina Balls	Balls, 2–5 mm	White, porous balls that grab fluoride and arsenic as water flows through. They can be regenerated and used again.
Ion Exchange Resins	Beads	Tiny plastic beads that swap unwanted ions in water for harmless ones. They are the heart of softeners and DM plants.
Cation Exchange Resins	Beads	Beads that pull out calcium and magnesium, the cause of hardness, and give back sodium. Recharged with common salt.
Anion Exchange Resins	Beads	Beads that take out chloride, sulphate, nitrate and silica. Paired with cation resin, they make DM water.
Anti-Scalant	Liquid	Dosed in tiny amounts before RO membranes. It keeps hardness and silica dissolved, so they cannot form scale.
Corrosion Inhibitors	Liquid	They lay a thin film on metal, so the water in boilers, cooling towers and pipes does not eat it away.
Chlorine	Liquid or bleaching powder	The standard way to kill germs in drinking water. A small leftover amount keeps the water safe in the tank.
Hydrogen Peroxide H_2O_2	Liquid	A strong oxidiser that kills germs and clears the rotten-egg smell. It breaks down into just water and oxygen.
Biocides	Liquid	They kill and control bacteria, algae and slime in cooling towers, RO plants and process water.
Antifoams	Liquid	They knock down foam in aeration tanks, cooling towers and process lines, so pumps and tanks work properly.
Enzyme Inhibitors	Liquid	They slow down unwanted biological activity, such as slime build-up, in industrial water and wastewater systems.

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