

# ECOTAR C

## TECHNICAL DATA SHEET | MULTICOMPONENT ION-EXCHANGE FILTER MEDIA

ECOTAR C is intended for treatment of water containing elevated levels of natural organic substances, organically bound iron and manganese. Suitable sources include shallow boreholes, dug wells and open water reservoirs. Untreated water may appear yellow to brown without forming sediment on standing.

The blend combines cation-exchange resins, macroporous anion-exchange resins, inert resin and quartz. It is designed to remove organic compounds, dissolved iron, manganese, hardness-causing salts and other impurities.

### Operating specifications

| Parameter                    | Specification        |
|------------------------------|----------------------|
| Ion-exchange capacity        | 600 mg-eq/L          |
| Service flow rate            | 10-20 m/h            |
| pH range                     | 0-14                 |
| Minimum bed depth            | 500 mm               |
| Freeboard for bed expansion  | 40%                  |
| Backwash flow rate           | 6-10 m/h             |
| Brine regeneration flow rate | 2-4 m/h              |
| Rinse flow rate              | 10-20 m/h            |
| Regenerant                   | NaCl                 |
| NaCl consumption             | 100-150 g/L of resin |

### Recommended feed-water limits

| Parameter                  | Specification                |
|----------------------------|------------------------------|
| Turbidity                  | Max. 3 ppm                   |
| Iron                       | Max. 2 ppm                   |
| Manganese                  | Max. 2 ppm                   |
| Hardness                   | Max. 12 mg-eq/L              |
| Permanganate oxidizability | Max. 20 mg O <sub>2</sub> /L |
| Free chlorine              | Max. 0.1 ppm                 |
| Total salinity             | Max. 2,000 mg/L              |
| Hydrogen sulfide           | Absent                       |

### Physical properties and packaging

| Parameter                 | Specification  |
|---------------------------|----------------|
| Bulk density              | 0.84-0.98 kg/L |
| Particle size             | 0.25-5.0 mm    |
| Moisture content          | 45-70%         |
| Maximum water temperature | 40 °C          |
| WATEX sales packaging     | 25 L/bag       |

Product code: ECOTAR-C | Source: WATEX product listing and supplied technical specifications. Parameters should be confirmed against the applicable manufacturer documentation before system design.