ECOTAR A

TECHNICAL DATA SHEET | Multi-component ion exchange resin blend

Product overview

ECOTAR A is a mixed filtration medium for reducing dissolved iron, organically complexed iron, manganese and hardness in water. Recommended for wells and shallow boreholes, particularly where untreated water is yellow-brown and forms sediment on standing. The blend contains cation-exchange resins, macroporous anion-exchange resins, inert media and quartz.

Operating specifications

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

Feed water limits

Parameter	Specification
Turbidity, maximum	3 ppm
Iron, maximum	8 ppm
Manganese, maximum	2 ppm
Hardness, maximum	10 mg-eq/L
Permanganate oxidizability, maximum	10 mg O2/L
Free chlorine, maximum	0.1 ppm
Total salinity, maximum	2,000 mg/L
Hydrogen sulfide	Absent

Physical properties

Parameter	Specification
Bulk density	0.84–0.98 kg/L
Particle size range	0.25–5.0 mm
Moisture content	45–70%
Sales package (WATEX)	25 L / bag

Specifications are compiled from ECOTAR A product information supplied for this sheet. Verify operating settings against actual water analysis and equipment requirements. Packaging reflects the WATEX retail listing.