

FILTER MEDIA ECOMIX® C

A homogeneous mixture of five high quality ion-exchange and adsorption materials that provide simultaneous water softening and removal of iron, manganese, ammonia ions for commercial and industry applications. Also can be used to decrease natural organic matter content. Recommended when natural organic matter content is one of the target contaminants.

Product	Appearance	
ECOMIX® C	Commodity form	Mixture of white, light brown, umber and grey granules.
	Operation form	Separate beds of white (large), white (small), light brown, umber and grey granules *

*separates in the course of regeneration before first start-up.

Product specification

Ion- exchange capacity	eq/l	0,6 – 0,7
Bead size distribution: 0,3 – 1,2 mm 2,0 – 4,0 mm	%	80 – 90 10 – 20
Mean particle size:	mm	0,3 – 4,0

Typical physical and chemical properties

Shipping weight	kg/l	0,8
Water content	%	55 – 80
Osmotic stability (for 0,3 – 1,2 mm granule size), min	%	90

Suggested operation conditions		
• Operating temperature		0 – 40 °C
• pH range		5 – 10
• Minimum bed depth		500 mm
• Optimum bed depth		800 mm
• Flow rates:		
Service		20 – 25 m/h
Backwash		10 – 15 m/h
Regeneration		3 – 5 m/h
• Free bed volume		> 40 %
• Water consumption for regeneration		10 BV*
• Salt consumption for regeneration		100 – 150 g/l media
• Regeneration solution		8 – 10 % NaCl

* BV (Bed Volume) = 1 m³ solution per m³ resin

Typical properties and applications

ECOMIX® C is a scientifically grounded technology, confirmed by 4 patents and 12 years of service over the world. Excellent sorbent for simultaneous water softening, iron, manganese, ammonia and natural organic matter removal for the production of drinking, domestic or process water. ECOMIX® C Recommended when natural organic matter content is one of the target contaminants and needs to be removed by more than 50 %. ECOMIX® C works effectively with water from any source within the allowable concentrations of iron and manganese can simultaneously remove the four major forms of iron in the water: ferrous, ferric, organic and colloidal. The effectiveness of ECOMIX® C is independent of pH, organic matter, sulfur hydroxide or chlorine content. Volume capacity calculation requires only exchange capacity and raw water hardness. Filter material ECOMIX® C is certified by TÜV SÜD, which confirms

its toxicological safety and the possibility of its application in the food industry.

Water treatment efficiency

Characteristics	Raw water concentration limits	Quality of purified water
- hardness, meq/l	15	< 0,5
- total iron, ppm	15	< 0,2
- manganese, ppm	3,0	< 0,05
- chemical oxygen demand, ppmKMnO ₄	80	<12
- ammonia, ppm	4,0	<0,5

Packing: begs 12 and 25 l.