

## FILTER MEDIA ECOMIX® C

ECOMIX C is a mixture of high quality natural and synthetic ion exchange and adsorptive filtering medias that is used for reducing hardness, iron, manganese, and tannins from water for residential and commercial applications. The media is regenerated in the same way as a regular water softener with pelleted sodium chloride.

Product	Appearance	
ECOMIX® C	Commodity form	Mixture of white, light brown, amber and grey granules.
	Operation form	Separate beds of white (large), white (small), light brown, amber and grey beads <sup>1</sup>

<sup>1</sup>Ecomix C self-classifies in 5-layer bed during the initial regeneration prior to the first use.

### Product specification

Ion exchange capacity	grains/ft <sup>3</sup> eq/L	13.000 0.6
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### Typical physical and chemical properties

Shipping weight	lbs/ft <sup>3</sup> kg/L	50 0.8
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### Suggested operation conditions

Operating temperature	32...105 °F (0...+40 °C)
pH range	5–9
Minimum bed depth	20 in. (500 mm)
Optimum bed depth	30 in. (800 mm)
Flow rates:	
Service	8–10 gpm/ft <sup>2</sup> (20–25 m/h)
Backwash/fast rinse	4–6 gpm/ft <sup>2</sup> (10–15 m/h)
Regeneration	1.2–2 gpm/ft <sup>2</sup> (3–5 m/h)
Freeboard volume	> 40 % of tank volume
Water consumption for regeneration	max. 10 BV <sup>1</sup>
Salt consumption for regeneration	6.3–9.4 lbs/ft <sup>3</sup> of media 100–150 g/l of media

<sup>1</sup>BV (Bed Volume) = 1 m<sup>3</sup> of solution per m<sup>3</sup> of media.

### 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, removal of iron, manganese and tannins for production of drinking, domestic or process water. ECOMIX® C is recommended when tannins are one of the target contaminants and need to be removed by more than 50 %. ECOMIX® C works effectively with water from any source within the allowable concentrations

of iron and manganese and simultaneously reduces the four major forms of iron in the water: ferrous, ferric, organic and colloidal. Efficiency of ECOMIX® C does not depend on pH, hydrogen sulfide or chlorine content. Volume capacity calculation requires only exchange capacity of media and raw water hardness. ECOMIX® C is certified by WQA against NSF/ANSI 44/61/372 for material safety and is certified by TÜV SÜD (confirms its toxicological safety and the possibility of its application in the food industry).

**Water quality limitations**

Parameter	Units of measurement	Raw water concentration limits
Hardness	ppm CaCO <sub>3</sub>	750
	gpg	44
Total iron	ppm	15
Manganese	ppm	3
Tannins	ppm	5

**Packing:** bags of 0.88 ft<sup>3</sup> (25 L) and 0.44 ft<sup>3</sup> (12.5 L).