

ADICART Ion Exchange Resin Technical Data Sheet

- Description**

ADICART is a ready to use sealed resin-filled cartridge for use in the ADHSINGLE or ADHDOUBLE deioniser housing. The resin used in the cartridges is Purolite® MB49VC, a polystyrenic gel macroporous mixed bed resin mixture ideal for demineralisation of water. It contains dyed cation to indicate when the resin is exhausted and is suitable for use in both regenerable and non-regenerable cartridges. The resin is ideal as a feed water pre-treatment for the Aquatron® water stills.



- Typical physical and chemical characteristics**

Appearance	Spherical beads	
Moisture content (max.)	62%	
Particle size range	300-1200µm	
< 300µm (max.)	1%	
Uniformity coefficient (max.)	1.7	
Maximum flow rate	60L/h	
Maximum pressure	100 psi (700 kPa)	
Shipping weight (approx.)	700-735g/L (43.8-45.9lb/ft ³)	
Temperature limit, non-regenerable bed	100°C (212°F)	
Temperature limit, regenerable bed	60°C (140°F)	
Component name	Gel strong acid cation	Macroporous type I strong base anion
Polymer structure	Gel polystyrene crosslinked with divinylbenzene	Macroporous polystyrene crosslinked with divinylbenzene
Functional group	Sulfonic acid	Type I quaternary ammonium
Ionic form	H ⁺ form	OH ⁻ form
Cation/anion volumetric ratio	40%	60%