

### **Product Data Sheet**

### PUROLITE® MB500VC

**Mixed Bed** 

#### Mixed Bed Exchange Resin - Self Indicating

Purolite MB500 VC is a resin mixture for direct purification of water of the highest quality. This resin mixture changes color from emerald green to amber/opaque on exhaustion. It is suitable for use in regenerable or non-regenerable cartridges or in large ion exchange units. Passage of water at recommended flow rates through the resin, as supplied, can achieve almost complete reduction of total dissolved solids. The residuals produce average conductivity values of about 0.1 µS/cm for a major portion of the service run. However it will be necessary to cease water production prior to complete color change if highest quality water is essential. Generally water with a conductivity between 5-50 µS/cm is obtained when the blue color reaches close to the bottom of the bed. It should be noted that at the end of the run, water of low pH can be produced. Equivalent volumes of pure water may be obtained after regeneration but only if sufficient regenerant quantities are employed to achieve the percentage conversion levels close to those of the "as supplied" resin. Generally acceptable capacity and quality is obtained economically at lower regeneration levels. Self indication may only be possible for several cycles. Note: Purolite MB500VC is delivered in sealed, airtight packaging. Exposure to the atmosphere even for less than one hour can produce a noticeable difference in treated water quality when the purest water quality obtainable is required. Exposure for long periods can result in carbonation of the anion resin which results in substantial loss of performance. Hence once packaging is opened, resin should be used directly, and any unused resin returned to containers and sealed.

#### **Basic Features:**

Application Demineralization - High Purity Silica Free

Polymer Structure Gel/Macroporous polystyrene crosslinked with divinylbenzene

Appearance Spherical beads

Functional Group Sulphonic Acid and Type 1 Quaternary Ammonium

Ionic form as shipped H<sup>+</sup>/OH<sup>-</sup>

#### **Typical Physical and Chemical Characteristics:**

Cation Component		Gel Strong Acid Cation
Anion Component		Macroporous Strong Base Anion
Cation / Anion Ratio		40 / 60 %
Total Capacity (min.)	Na <sup>+</sup>	1.90 eq/l
Total Capacity (min.)	Na <sup>+</sup>	41.50 kGr/ft <sup>3</sup>
Total Capacity (min.)	Cl	1.15 eq/l
Total Capacity (min.)	Cl	25.10 kGr/ft <sup>3</sup>
Moisture Content		65 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Shipping Weight (approx.)		700-735 g/l

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Shipping Weight (approx.)		43.7-45.9 lbs/ft <sup>3</sup>
Temp Limit	Non <sup>-</sup> Regenerable Bed	100 °C
Temp Limit	Non <sup>-</sup> Regenerable Bed	212 °F
Temp Limit	Regenerable Bed	60 °C
Temp Limit	Regenerable Bed	140 °F
pH Limits		0-14

USA

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