

Purolite® MB400

Mixed Bed Resin

PRODUCT DATA SHEET

Purolite MB400 is a high quality resin mixture for direct purification of water. It is suitable for use in regenerable or non-regenerable cartridges and 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 $\mu\text{s cm}^{-1}$ for a major portion of the service run which may be extended depending upon the final water quality acceptable. Equivalent volumes of ultra pure water may be obtained after regeneration but only if sufficient regenerant quantities are employed to achieve the percentage conversion levels equivalent to those of the "as supplied" resin. Generally acceptable capacity and quality is obtained economically at lower regeneration.

The theoretical total combined capacity in the regenerated form is 0.55 eq/l.

Typical Physical and Chemical Characteristics

| | | |
|---------------------------------|--|------------------------------|
| Application | Demineralization - High quality; general purpose | |
| Polymer Structure | Gel polystyrene crosslinked with divinylbenzene | |
| Appearance | Spherical beads | |
| Functional Group | Sulfonic Acid and Type 1 Quaternary Ammonium | |
| Ionic Form as Shipped | H^+ / OH^- | |
| Component | Gel strong acid cation | Gel type 1 strong base anion |
| Cation / Anion Volumetric Ratio | 40 % | 60 % |
| Moisture Content | 65 % (max) | |
| Particle Size Range | 300 - 1200 μm | |
| Uniformity Coefficient (max.) | 1.7 | |
| <300 μm (max.) | 1 % | |
| Temp Limit, Non-Regenerable Bed | 100°C (212°F) | |
| Temp Limit, Regenerable Bed | 60°C (140°F) | |
| Shipping Weight (approx.) | 705 - 740 g/l (44.1 - 46.3 lb/ft ³) | |



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