

PRODUCT DATA SHEET

Purolite® MB450VC

Polystyrenic Gel, Macroporous,
Mixed Bed Resin, Hydrogen form,
Hydroxide form, With Indicator

PRINCIPAL APPLICATIONS

- Demineralization - Mixed Bed

ADVANTAGES

- Dyed Cation to indicate exhaustion



SYSTEMS

- Coflow regenerated systems
- Counterflow regenerated systems
- Mixed Bed

TYPICAL PACKAGING

- 1 ft³ Sack
- 25 L Sack
- 5 ft³ Drum (Fiber)

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Appearance	Spherical Beads	
Moisture Content (max.)	60 %	
Particle Size Range	300 - 1200 µm	
< 300 µm (max.)	1 %	
Uniformity Coefficient (max.)	1.7	
Shipping Weight (approx.)	700 - 735 g/L (43.8 - 45.9 lb/ft³)	
Temperature Limit, Non-Regenerable Bed	100 °C (212.0 °F)	
Temperature Limit, Regenerable Bed	60 °C (140.0 °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 %



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