

PRODUCT DATA SHEET

Purolite™ C100EPMB

ポリスチレン系 ゲル, 強酸性カチオン
交換樹脂, ナトリウム形, 混床樹脂グ
レード, High Purity Grade

PRINCIPAL APPLICATIONS

- 混床樹脂カチオン交換樹脂成分
- 軟水カートリッジ

ADVANTAGES

- 高純度
- 効率的な分離
- 非常に高い物理的および化学的安定性
- 高い反応速度
- 高交換容量

SYSTEMS

- 混床樹脂脱塩装置
- 軟水装置

TYPICAL PACKAGING

- 1 ft³ Sack
- 1 CF Box
- 25 L Sack
- 5 ft³ Drum (Fiber)
- 35 ft³ Supersack
- 42 ft³ Supersack
- 1 m³ Supersack

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

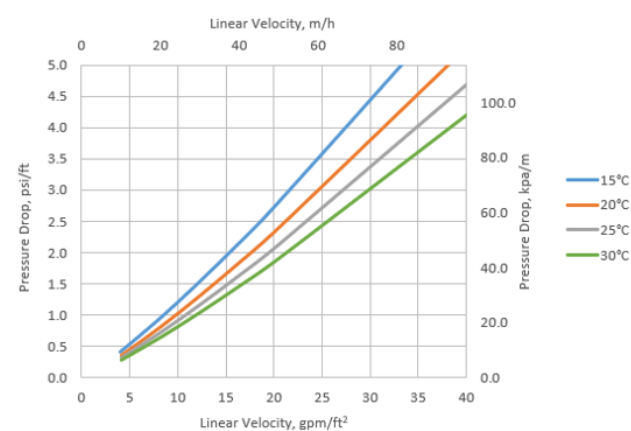
Polymer Structure	ジビニルベンゼンにより架橋されたポリスチレンゲル
Appearance	球形ビード
Functional Group	硫酸
Ionic Form	Na ⁺ 形
総交換容量 (最小)	2.0 eq/l (43.7 Kgr/ft³) (Na ⁺ 形)
水分含有率	44 - 48 % (Na ⁺ 形)
粒径範囲	425 - 1200 µm
< 425 µm (max.)	2 %
均一係数 (最大)	1.6
可逆的膨張, Na ⁺ → H ⁺ (最大)	9 %
比重	1.29
見かけ密度 (概算)	800 - 840 g/L (50.0 - 52.5 lb/ft³)
温度制限	120 °C (248.0 °F)

油压特性

PRESSURE DROP

The pressure drop across a bed of ion exchange resin depends on the particle size distribution, bed depth, and voids volume of the exchange material, as well as on the flow rate and viscosity of the influent solution. Factors affecting any of these parameters—such as the presence of particulate matter filtered out by the bed, abnormal compressibility of the resin, or the incomplete classification of the bed—will have an adverse effect, and result in an increased head loss. Depending on the quality of the influent water, the application and the design of the plant, service flow rates may vary from 10 to 40 BV/h.

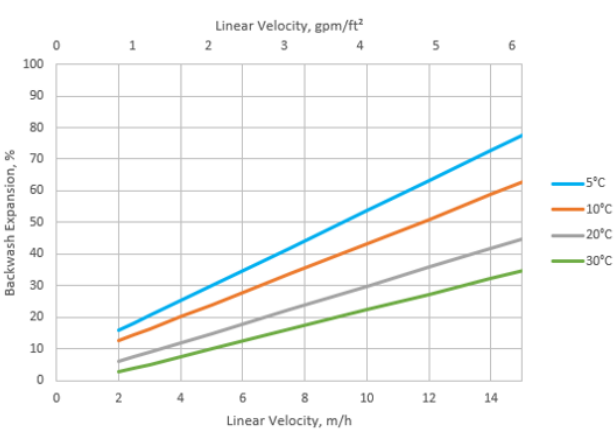
PRESSURE DROP ACROSS RESIN BED



BACKWASH

During up-flow backwash, the resin bed should be expanded in volume between 50 and 70% for at least 10 to 15 minutes. This operation will free particulate matter, clear the bed of bubbles and voids, and reclassify the resin particles ensuring minimum resistance to flow. When first putting into service, approximately 30 minutes of expansion is usually sufficient to properly classify the bed. It is important to note that bed expansion increases with flow rate and decreases with influent fluid temperature. Caution must be taken to avoid loss of resin through the top of the vessel by over expansion of the bed.

BACKWASH EXPANSION OF RESIN BED



Ecolab is a global developer, manufacturer, and supplier of Purolite™ Resins including ion exchange, catalyst adsorbent and advanced polymers that make the world cleaner and healthier.

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