

Macronet™ MN102

高架橋ポリスチレン系樹脂 マクロ
ポーラス, 弱塩基性官能基を持つ合成
吸着剤, 遊離塩基形

PRINCIPAL APPLICATIONS

- 吸収
- 疎水性有機物分離
- 脱色 - 甘味料
- 脱色 - ビールブロス
- 脱色 - 糖液処理
- パツリン除去

ADVANTAGES

- 高機械的強度
- 標準合成吸着剤よりの大きな比表面積
- イオン交換と疎水性吸着の2つの相互作用

REGULATORY APPROVALS

- IFANCA Halal認定
- OKコーシャ証明
- Compliant with FDA Regulation 21 CFR 173.25 for Food Treatment, Ion Exchangers
- Europe Resolution ResAP (2004)3準拠
- GMO/TSE/BSE フリー

TYPICAL PACKAGING

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

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

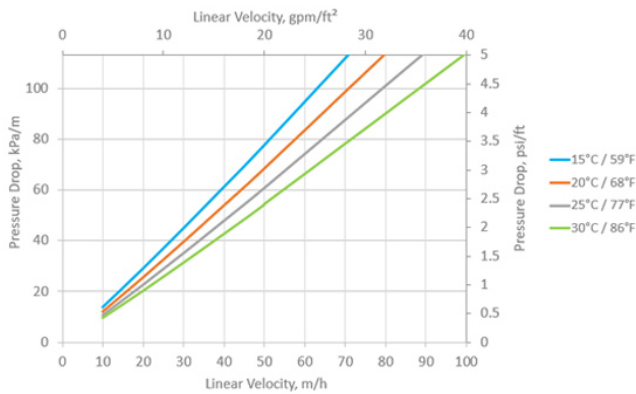
Polymer Structure	ポリスチレン系ジビニルベンゼン架橋マクロポーラス型ポリマー
Appearance	球形ビード
Functional Group	3級アミン
Ionic Form	遊離塩基
総交換容量	0.1 - 0.3 eq/l (遊離塩基)
水分含有率	50 - 60 % (遊離塩基)
粒径範囲	300 - 1200 µm
可逆的膨張, FB → Cl ⁻ (最大)	5 %
窒素注入による標準的な細孔直径 (メソポア/マクロポア)	350 Å
窒素注入による標準的な細孔直径 (マイクロポア)	15 Å
窒素注入による標準的な細孔容量	0.4 mL/g
窒素吸着法による典型的な比表面積	800 m ² /g
比重	1.07
見かけ密度 (概算)	610 - 640 g/L (38.1 - 40.0 lb/ft ³)
許容pH、安定性	0 - 14
温度制限	60 °C (140.0 °F) (遊離塩基)

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.

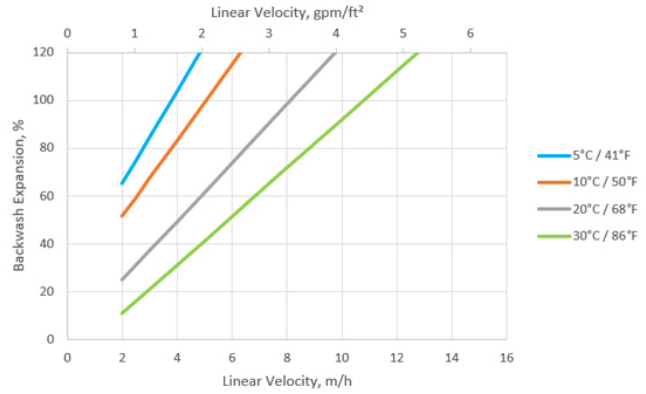
PRESSURE DROP ACROSS RESIN BED



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



Purolite, an Ecolab company, is a leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins with global sales support.



We're ready to solve your process challenges.

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