PRODUCT DATA SHEET

Purolite™ CT275

ポリスチレン系 マクロポーラス, 強酸性カチオン交換樹脂, 水素形, 触媒, 高い交換容量

PRINCIPAL APPLICATIONS

- MTBE Production
- TAME 製造

TYPICAL PACKAGING

- 1 m³ Supersack
- 42 ft³ Supersack

ADVANTAGES

- 高架橋度

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	硫酸
Ionic Form	H^+ 形
乾燥樹脂当たり交換容量 (最小)	5.2 当量 / kg (H^+ 形)
水分含有率	51 - 59 % (H^+ 形)
粒径範囲	425 - 1200 µm
< 425 µm (max.)	1 %
均一係数 (最大)	1.7
比表面積	20 - 40 m²/g
ポア容量	0.4 - 0.6 mL/g
平均細孔径	400 - 700 Å
表面酸強度	60 kJ mol-1
比重	1.2
見かけ密度 (概算)	755 - 790 g/L (47.2 - 49.4 lb/ft³)
温度制限	130 °C (266.0 °F)

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油圧特性

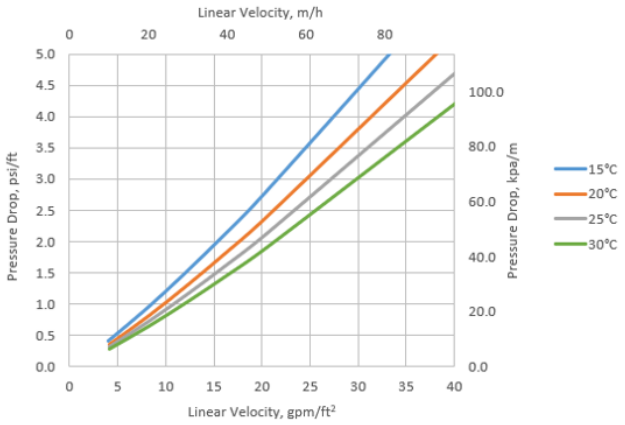
PRESSURE DROP

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.

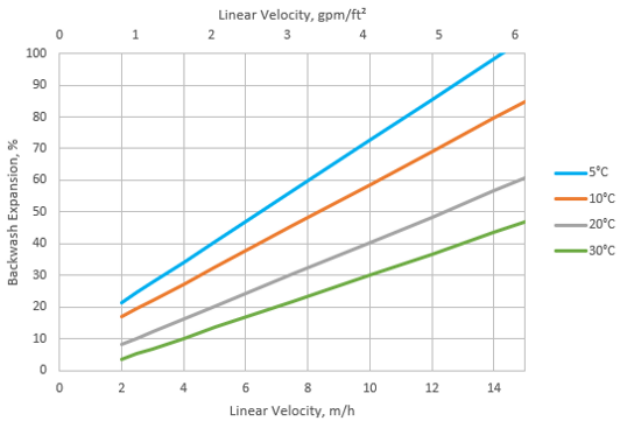
BACKWASH

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.

PRESSURE DROP ACROSS RESIN 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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