PRODUCT DATA SHEET

Purolite™ C100S

聚苯乙烯 凝胶, 强酸阳离子树脂, 钠型, 糖级别

主要应用

- 脱盐 - 糖液
- 食品和饮料工艺
- 脱盐 - 明胶, 胶原蛋白

产品优势

- 相对于标准树脂压降较低
- 溶出物
- 优良的物理和化学稳定性
- 高工作交换容量
- 良好的动力学性能

认证

- 遵循FDA Regulation 21 CFR 173.25对于食品处理, 离子交换树脂之规定
- 犹太认证
- Halal Certified

包装样式

- 1 CF 编织袋
- 25L 阀口袋
- 5 CF 纤维板桶
- 1M3 立方袋
- 42 ft³ 立方袋

典型物理和化学参数

聚合物骨架	凝胶型聚苯乙烯二乙烯苯交联
外观	球状颗粒
官能团	磺酸
离子型态	Na^+ 型
全交换容量（最小）	2.05 eq/L (44.8 Kgr/ft³) (Na^+ 型)
含水量	43 - 47 % (Na^+ 型)
粒径分布	425 - 1200 µm
< 425 µm (最大)	2 %
均一系数（最大）	1.6
转型膨胀率，$Na^+ \rightarrow H^+$（最大）	8 %
比重	1.29
包装密度（大约）	815 - 850 g/L (50.9 - 53.1 lb/ft³)
温度限制	120 °C (248.0 °F)

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水力学特性

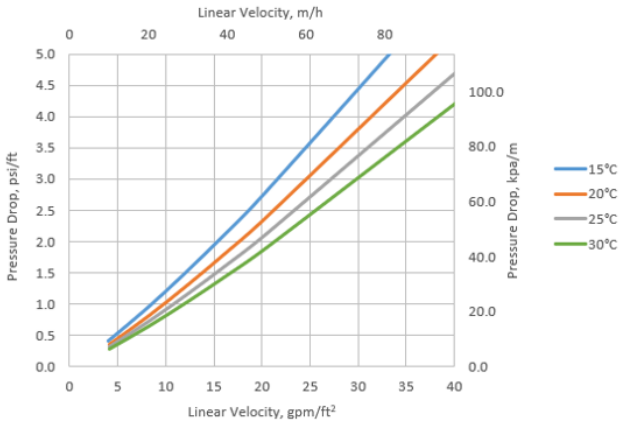
压降

离子交换树脂的压降取决于粒度分布、床层高度、树脂颗粒间空隙体积，以及物料的流速和粘度。任何对这些参数的影响-比如被树脂床层截住的颗粒物、对树脂床层的异常压缩、床层的不规则分布-都会对压降产生不利影响，造成压头损失。针对不同的物料质量、应用环境和系统设计，流速可能处于10 – 40 BV/h范围内变化。

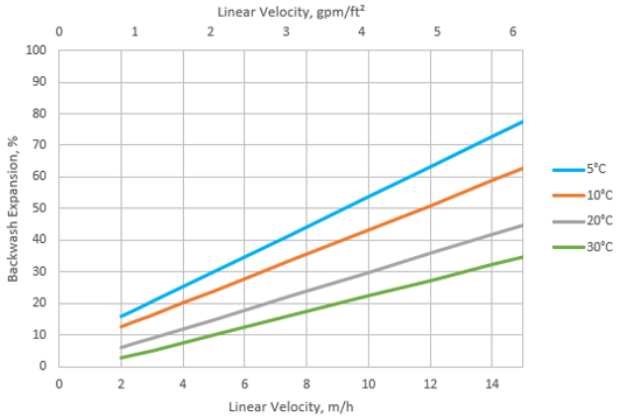
反洗

在自下而上反洗过程中，应控制反洗膨胀率在50%到70%之间，至少保持10到15分钟。该操作除去（运行过程中截留的物料中的）颗粒物，清除气泡，并重新规整树脂颗粒，确保最小的流动阻力。第一次投入前，大约30分钟的充分反洗，通常就足以对树脂床层进行适当的规整。 值得注意的是，相同流速下反洗膨胀率随温度降低而而升高。必须注意，应避免将树脂床层反洗膨胀过甚而导致树脂从顶部流失。

床层压降



树脂床反洗膨胀率



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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