

Purolite™ C100E/1420

聚苯乙烯 凝胶, 强酸阳离子树脂, 钠型, 饮用水级别

主要应用

- 软化-饮用水
- 食品和饮料工艺
- 软化-工业水

产品优势

- 高效再生
- 良好的动力学性能
- 溶出物

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
- 美国水质协会NSF ANSI61认证
- 美国水质协会NSF ANSI44认证

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

* 本产品仅为材料安全认证。

典型物理和化学参数

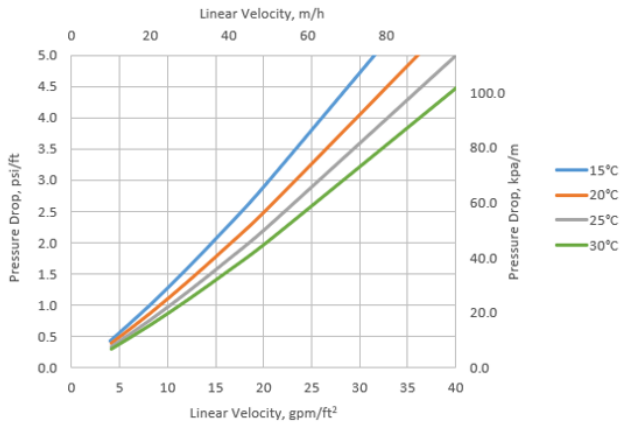
聚合物骨架	凝胶型聚苯乙烯二乙烯苯交联
外观	球状颗粒
官能团	磺酸
离子型态	Na ⁺ 型
全交换容量 (最小)	1.9 eq/L (41.5 Kgr/ft ³) (Na ⁺ 型)
含水量	41 - 49 % (Na ⁺ 型)
粒径分布	300 - 1200 μm
< 210 μm (最大)	0.1 %
< 300 μm (最大)	1 %
均一系数 (最大)	1.7
转型膨胀率, Na ⁺ → H ⁺ (最大)	10 %
转型膨胀率, Ca ²⁺ → Na ⁺ (最大)	8 %
比重	1.27
包装密度 (大约)	800 - 840 g/L (50.0 - 52.5 lb/ft ³)
温度限制	120 °C (248.0 °F)

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。

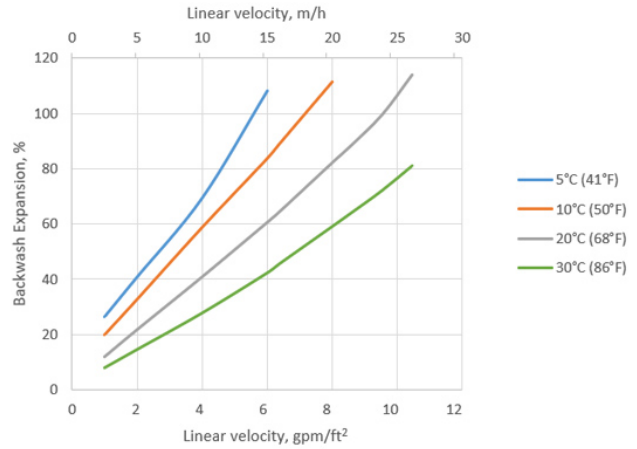
床层压降



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。

树脂床反洗膨胀率



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