PRODUCT DATA SHEET

Purolite™ Select SRA4441Cl

聚苯乙烯 凝胶, I型 强碱阴树脂, 氯型, 均颗粒, Premium Grade

主要应用

- Demineralization - High Organics Water

产品优势

- 高工作交换容量
- 出色的物理稳定性
- 良好的动力学性能

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	季铵
离子型态	Cl^-型
全交换容量（最小）	1.3 eq/L (28.4 Kgr/ft³) (Cl^-型)
含水量	50 - 60 % (Cl^-型)
平均直径	570 ± 50 µm
均一系数（最大）	1.2
< 300 µm (最大)	0.3 %
< 850 µm (最大)	99 %
整球（最小）	95 %
转型膨胀率，$Cl^- \rightarrow OH^-$（最大）	30 %
比重	1.07
包装密度（大约）	660 - 700 g/L (41.2 - 43.8 lb/ft³)
温度限制	100 °C (212.0 °F) (Cl^-型)
温度限制	60 °C (140.0 °F) (OH- 型)

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水力学特性

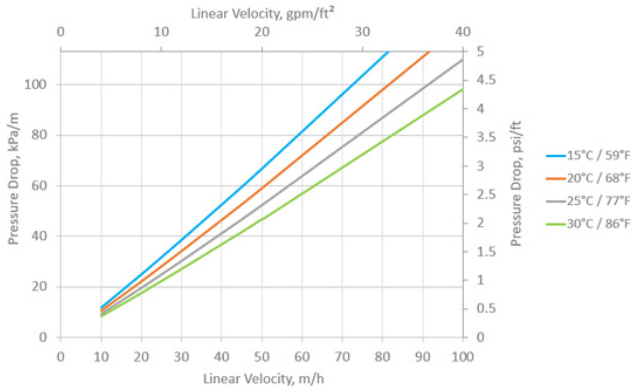
压降

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。

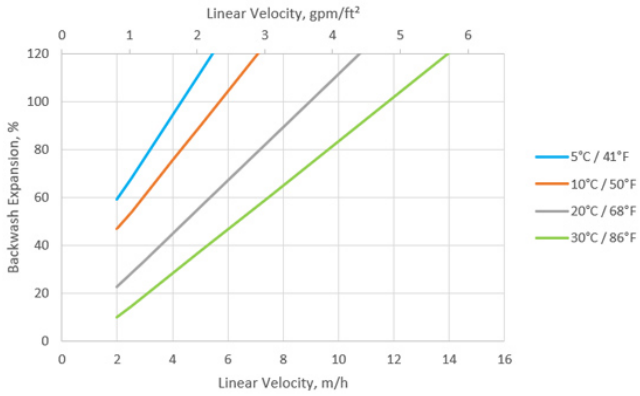
反洗

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



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