PRODUCT DATA SHEET

Purolite™ Supergel™ SGC650

聚苯乙烯 凝胶, 强酸阳离子树脂, 钠型

主要应用

- 凝结水精处理
- 凝结水软化

产品优势

- 优良的物理和化学稳定性
- 高压碎强度
- 高线速度应用
- 高工作交换容量
- 相对于标准树脂压降较低
- 优异的耐渗透压性能

适用系统

- 凝结水精处理混床
- 凝结水精处理前置阳床
- 高温

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）	2.2 eq/L (48.1 Kgr/ft³) (Na^+ 型)
含水量	40 - 43 % (Na^+ 型)
平均直径	650 ± 50 µm
均一系数	1.1 - 1.2
转型膨胀率，$Na^+ \rightarrow H^+$（最大）	10 %
比重	1.3
包装密度（大约）	800 - 840 g/L (50.0 - 52.5 lb/ft³)
温度限制	140 °C (284.0 °F)

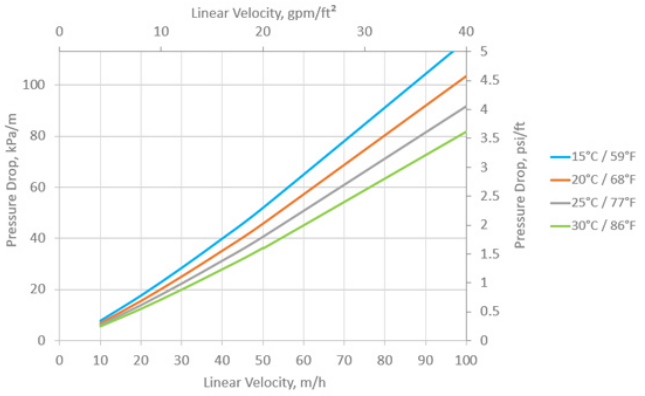
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水力学特性

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。

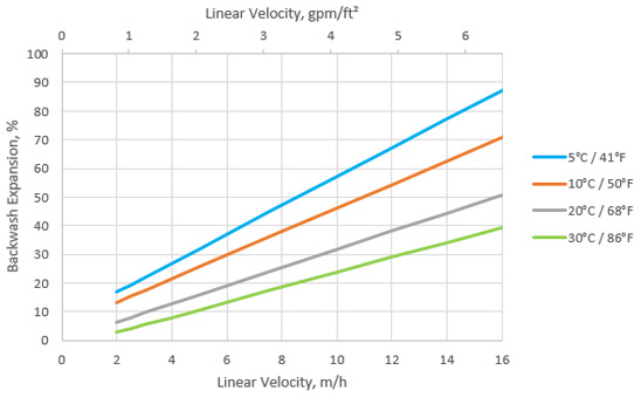
床层压降



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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