PRODUCT DATA SHEET

Purolite™ CT275

聚苯乙烯 大孔, 强酸阳离子树脂, 氢型, 催化剂, 高交换容量

主要应用

- MTBE 生产
- TAME 生产

产品优势

- 高度交联

包装样式

- 1M3 立方袋
- 42 ft³ 立方袋

典型物理和化学参数

聚合物骨架	大孔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	H+ 型
干重交换量 (最小)	5.2 eq/kg (H+ 型)
含水量	51 - 59 % (H+ 型)
粒径分布	425 - 1200 µm
< 425 µm (最大)	1 %
均一系数 (最大)	1.7
表面积	20 - 40 m²/g
孔容	0.4 - 0.6 mL/g
平均孔径	400 - 700 Å
表面酸强度	60 kJ mol-1
比重	1.2
包装密度 (大约)	755 - 790 g/L (47.2 - 49.4 lb/ft³)
温度限制	130 °C (266.0 °F)

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水力学特性

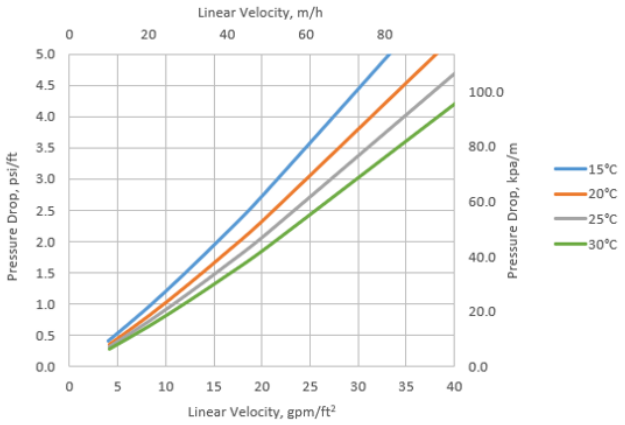
压降

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。

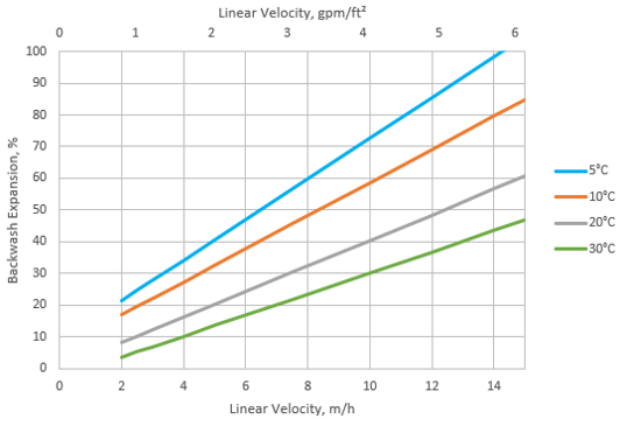
反洗

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



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