

# Purolite™ A503S

聚苯乙烯 大孔, I型 强碱阴树脂, 氯型,  
糖级别

## 主要应用

- 脱盐 - 糖液
- 脱色 - 糖液

## 产品优势

- 良好的热稳定性
- 优良的抗渗透冲击能力
- 高离子交换容量和吸附容量

## 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

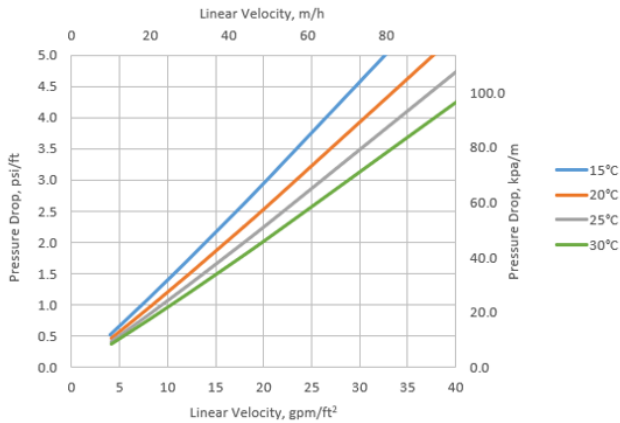
聚合物骨架	大孔型聚苯乙烯二乙烯苯交联
外观	球状颗粒
官能团	季铵I型
离子型态	Cl <sup>-</sup> 型
全交换容量 ( 最小 )	1 eq/L (21.8 Kgr/ft³) (Cl <sup>-</sup> 型)
含水量	61 - 66 % (Cl <sup>-</sup> 型)
粒径分布	425 - 1200 μm
< 425 μm (最大)	2 %
均一系数 ( 最大 )	1.7
转型膨胀率, Cl <sup>-</sup> → OH <sup>-</sup> ( 最大 )	20 %
比重	1.08
包装密度 ( 大约 )	670 - 700 g/L (41.9 - 43.8 lb/ft³)
温度限制	100 °C (212.0 °F) (Cl <sup>-</sup> 型)
温度限制	60 °C (140.0 °F) (OH <sup>-</sup> 型)

# 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。

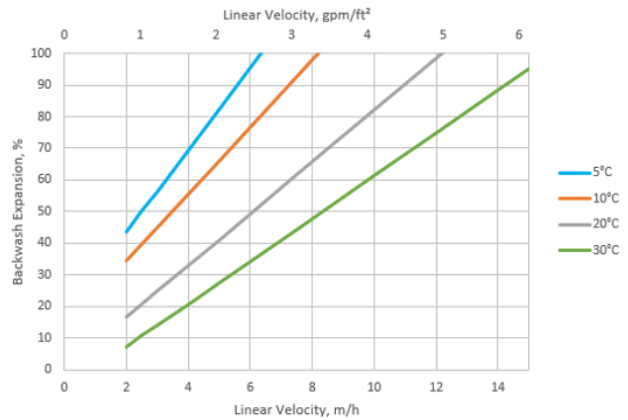
## 床层压降



## 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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