

Shallow Shell™ SSTC60

Polystyrol Gel, Stark saurer
Kationenaustauscher, Natrium Form,
Shallow Shell™ Technology

EINSATZGEBIETE

- Enthärtung - industriell
- Vollentsalzung wenn mit Säure regeneriert

VORTEILE

- SST shorter diffusion path benefits:
- Highest regeneration efficiency
- Very low leakage
- Highly resistant to iron fouling
- Lower rinse volumes
- Lower operating costs
- Excellent physical/chemical stability

SYSTEME

- Gleichstromanlagen
- Im Gegenstrom regenerierte Anlagen

TYPISCHE VERPACKUNGEN

- 1 CF Sack
- 25 L Sack
- 5 CF Papptrommel
- 1 M³ Big bag
- 42 CF Supersack

* SST® ist eine registriertes Warenzeichen der Purolite Corporation.

TYPISCHE PHYSIKALISCHE & CHEMISCHE EIGENSCHAFTEN:

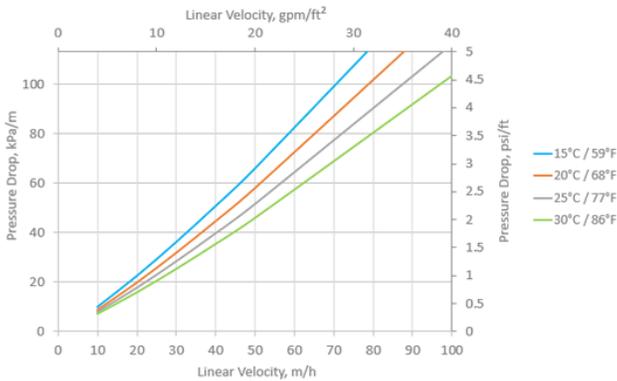
Polymerstruktur	Gel Polystyrol quervernetzt mit Divinylbenzol
Aussehen	Spherische Kugeln
Funktionelle Gruppe	Sulfonsäure
Ionische Form	Na ⁺ Form
Trockengewichtskapazität	3.8 eq/kg (Na ⁺ Form)
Wassergehalt	38 - 46 % (Na ⁺ Form)
Partikelgrößen Bereich	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformitätskoeffizient (max)	1.7
reversible Volumenänderung, Na ⁺ → H ⁺ (max.)	8 %
Spezifische Dichte	1.2
Schüttgewicht (ca.)	775 - 825 g/l (48.4 - 51.6 lb/ft³)
Temperaturlimit	60 °C (140.0 °F)

Hydraulische Eigenschaften

PRESSURE DROP

The pressure drop across a bed of ion exchange resin depends on the particle size distribution, bed depth, and voids volume of the exchange material, as well as on the flow rate and viscosity of the influent solution. Factors affecting any of these parameters—such as the presence of particulate matter filtered out by the bed, abnormal compressibility of the resin, or the incomplete classification of the bed—will have an adverse effect, and result in an increased head loss. Depending on the quality of the influent water, the application and the design of the plant, service flow rates may vary from 10 to 40 BV/h.

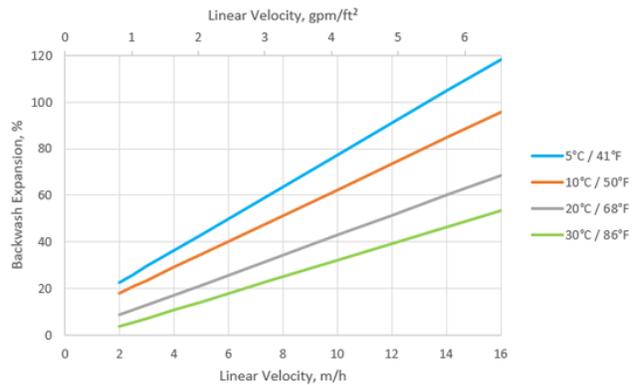
PRESSURE DROP ACROSS RESIN BED



BACKWASH

During up-flow backwash, the resin bed should be expanded in volume between 50 and 70% for at least 10 to 15 minutes. This operation will free particulate matter, clear the bed of bubbles and voids, and reclassify the resin particles ensuring minimum resistance to flow. When first putting into service, approximately 30 minutes of expansion is usually sufficient to properly classify the bed. It is important to note that bed expansion increases with flow rate and decreases with influent fluid temperature. Caution must be taken to avoid loss of resin through the top of the vessel by over expansion of the bed.

BACKWASH EXPANSION OF RESIN BED



Purolite, an Ecolab company, is a leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins with global sales support.



We're ready to solve your process challenges.

For further information on Purolite products and services, visit www.purolite.com or contact us at the addresses below.

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