TECHNISCHES DATENBLATT

Purolite™ Puromet™ MTS9570

Polystyrol, Selektivaustauscher mit Phosphonsäure und Sulfonsäure Gruppen

EINSATZGEBIETE

- Antimon Entfernung
- Bismuth Entfernung
- Eisen Entfernung

VORTEILE

- sehr selektiv

SYSTEME

- unterschiedliche Abwässer und Lösungen

TYPISCHE VERPACKUNGEN

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

TYPISCHE PHYSIKALISCHE & CHEMISCHE EIGENSCHAFTEN:

Polymerstruktur	makroporöses Polystyrol quervernetzt mit Divinylbenzol
Aussehen	Spherische Kugeln
Funktionelle Gruppe	Phosphon- und Sulfonsäure
Ionische Form	H^+
Eisen Kapazität (max.)	18 g/l
Wassergehalt	55 - 70 % (H^+)
Partikelgrößen Bereich	315 - 850 µm
< 315 µm (max.)	1 %
Uniformitätskoeffizient (max)	1.4
Reversible Swelling, $H^+ \rightarrow Fe^{3+}$ (max.)	-5 %
Spezifische Dichte	1.12
Schüttgewicht (ca.)	710 - 760 g/l (44.4 - 47.5 lb/ft³)

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Hydraulische Eigenschaften

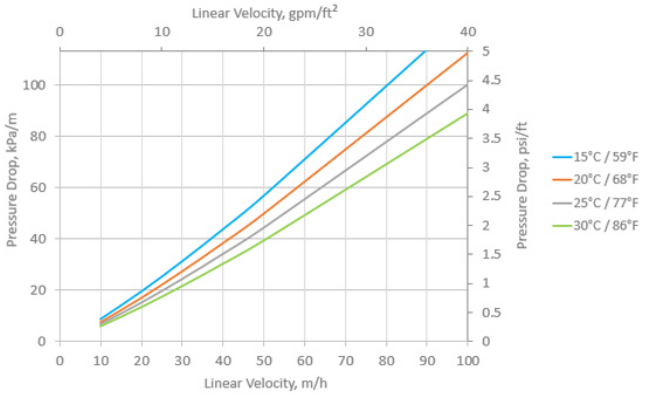
PRESSURE DROP

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.

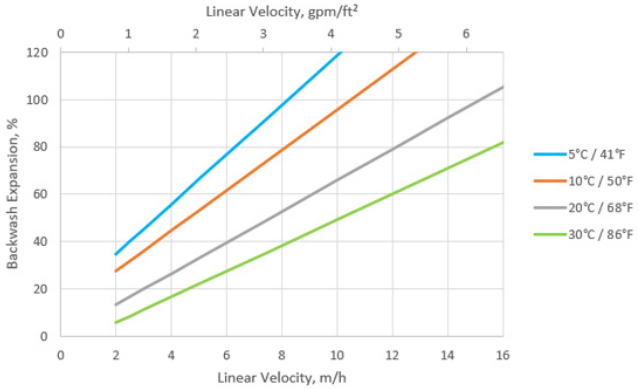
BACKWASH

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.

PRESSURE DROP ACROSS RESIN BED



BACKWASH EXPANSION OF RESIN BED



Ecolab is a global developer, manufacturer, and supplier of Purolite™ Resins including ion exchange, catalyst adsorbent and advanced polymers that make the world cleaner and healthier.

www.puroliteresins.com

We're ready to solve your process challenges.

For further information on products and services, visit www.puroliteresins.com or complete a Contact Us form via PuroliteResins.com/contact-us or use the QR code.

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