PRODUCT DATA SHEET

Purolite™ Purofine™ PFA444

polistirenic Gel, Rasinina Anionica puternic bazica de tip I, forma clor, Dimensiunea uniformă a particulelor

PRINCIPALELE APLICATII

- Demineralization - High Organics Water

AVANTAJE

- Capacitate ridicată de operare
- Stabilitate fizică excepională
- o performană cinetică buna

AMBALAJE TIPICE

- sac 1 ft³
- 25 L sac
- Butoi (Fibră) de 5 CF
- 1 M³ supersac
- supersac de 42 CF

CARACTERISTICI TIPICE FIZICE SI CHIMICE

Structura polimerica	Copolimer gel polistirenic reticulat cu divinilbenzen
Aspect	Perle sferice
Grupari functionale	Amoniu quternar
Forma ionica	forma Cl^-
Capacitatea totală (min.)	1.1 eq/L (24.0 Kgr/ft³) (forma Cl^-)
reinerea umidităii	50 - 60 % (forma Cl^-)
diametru mediu	570 ± 50 µm
coeficient de uniformitate (max.)	1.3
Dilatare reversibilă, Cl- → OH- (max.)	30 %
densitate specifică	1.07
Greutate de transport (aprox.)	660 - 700 g/L (41.2 - 43.8 lb/ft³)
Limita de temperatură	100 °C (212.0 °F) (forma Cl^-)
Limita de temperatură	60 °C (140.0 °F) (forma OH^-)

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Caracteristici hidraulice

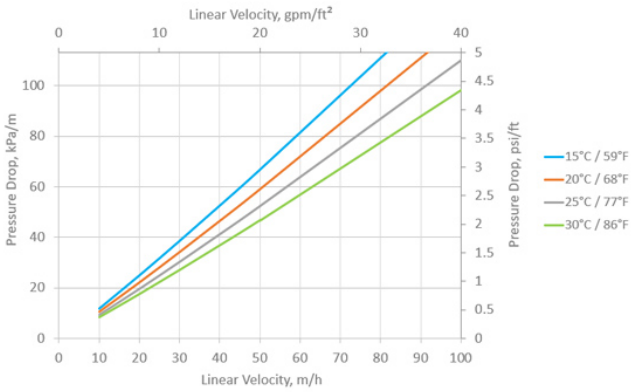
PRESSURE DROP

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.

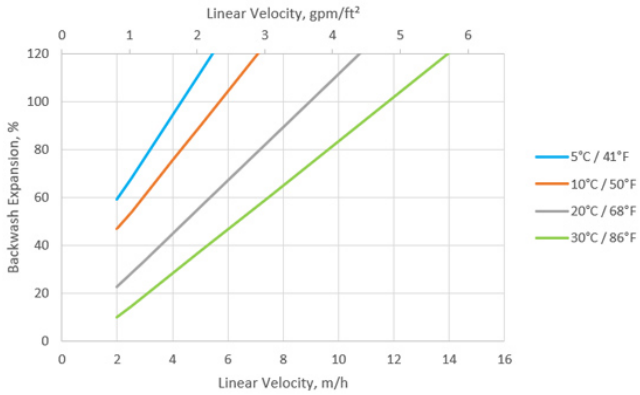
BACKWASH

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.

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We're ready to solve your process challenges.

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