TECHNISCHES DATENBLATT

Purolite™ C150

Polystyrol makroporös, Stark saurer Kationenaustauscher, Natrium Form

EINSATZGEBIETE

- Kondensatreinigung
- Enthärtung - hohe Temperaturen
- Vollentsalzung - industriell
- Enthärtung - Wasser mit hohem Salzgehalt

BEHÖRDLICHE GENEMIGUNGEN

- IFANCA Halal zertifiziert

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	Sulfonsäure
Ionische Form	Na^+ Form
Totalkapazität (min.)	1.8 eq/L (39.3 Kgr/ft³) (Na^+ Form)
Wassergehalt	48 - 53 % (Na^+ Form)
Partikelgrößen Bereich	300 - 1200 µm
< 300 µm (max.)	1 %
Uniformitätskoeffizient (max)	1.7
reversible Volumenänderung, $Na^+ \rightarrow H^+$ (max.)	7 %
Spezifische Dichte	1.25
Schüttgewicht (ca.)	785 - 825 g/l (49.1 - 51.6 lb/ft³)
Temperaturlimit	120 °C (248.0 °F) (H^+)
Temperaturlimit	140 °C (284.0 °F) (Na^+ Form)

2026 Purolite
All rights reserved.

Hydraulische Eigenschaften

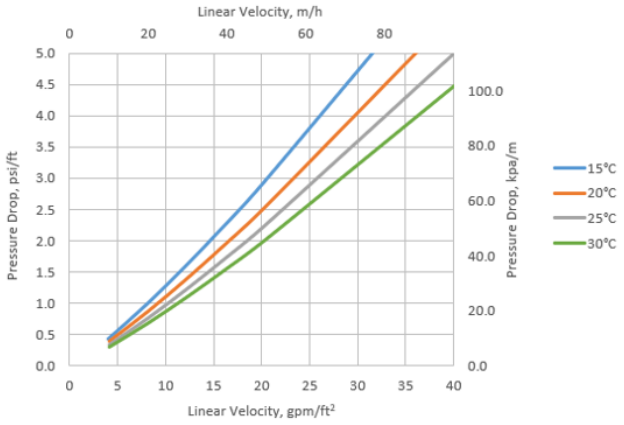
PRESSURE DROP

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.

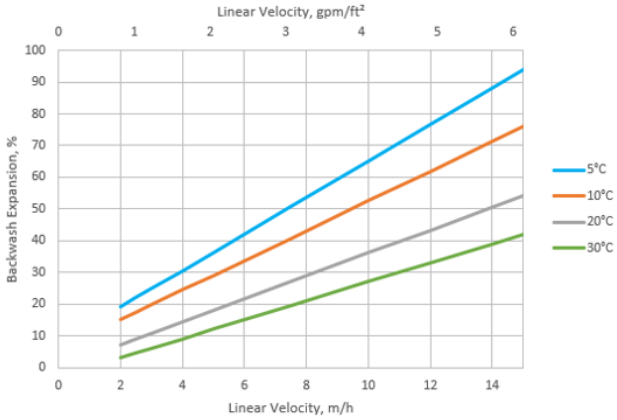
BACKWASH

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.

Contact Us Form:

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Purolite expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

2026 Purolite
All rights reserved.