

PRODUCT DATA SHEET

PuroSorb™ PAD900

Polydivinylbenzene Macroporous
Adsorbent Non-Ionic Form, 220 Å
pores

PRINCIPAL APPLICATIONS

- Polyphenol Extraction
- Juice Debittering
- Flavor Extraction
- Pesticide Removal
- Curcumin Purification

ADVANTAGES

- Large Pore Size
- High Porosity
- High Operating Capacity

REGULATORY APPROVALS

- OK Kosher Certified
- LPPOM MUI Halal Certified
- IFANCA Halal Certified
- Compliant with FDA Regulation 21 CFR 173.65 for Food Treatment, Adsorbents
- Compliant with Europe Resolution ResAP (2004)3
- GMO/TSE/BSE free

TYPICAL PACKAGING

- 250 g
- 1 kg
- 5 kg
- 10-50 kg
- 50-100 kg
- 100-1000 kg
- >1MT

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

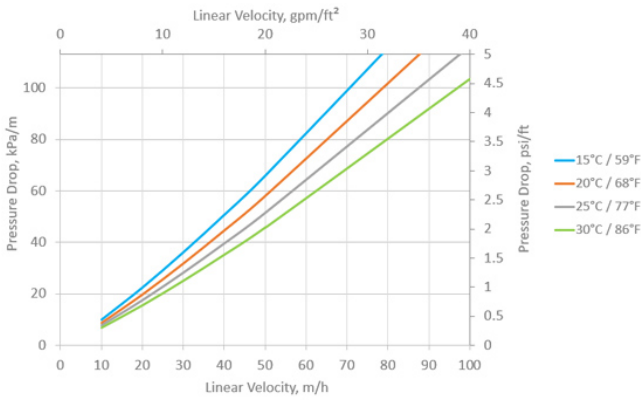
Polymer Structure	Polydivinylbenzene
Appearance	White to off-white spherical beads
Functional Group	Non Ionic
Ionic Form	None
Moisture Retention	67 - 73 %
Particle Size Range	350 - 1200 µm
Typical Pore Diameter by Nitrogen Adsorption	220 Å
Typical Pore Volume by Nitrogen Adsorption	1.9 mL/g
Typical Surface Area by nitrogen adsorption	850 m ² /g
Specific Gravity	1.02
Shipping Weight (approx.)	640 - 690 g/L (40.0 - 43.1 lb/ft ³)
Uniformity Coefficient (max.)	1.6
pH Limit Stability	0 - 14
Temperature Limits	150 °C (302.0 °F)

Hydraulic Characteristics

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.

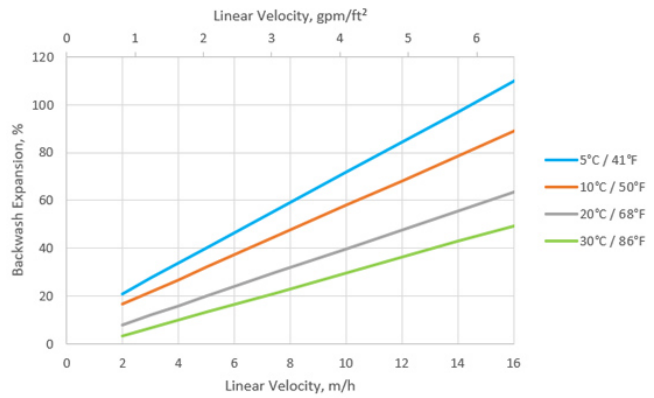
PRESSURE DROP ACROSS RESIN BED



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





Algeria
Australia
Bahrain
Brazil
Canada
China
Czech Republic
France
Germany

India
Indonesia
Israel
Italy
Japan
Jordan
Kazakhstan
Korea
Malaysia

Mexico
Morocco
New Zealand
Poland
Romania
Russia
Singapore
Slovak Republic
South Africa

Spain
Taiwan
Tunisia
Turkey
UK
Ukraine
USA
Uzbekistan



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