



Strongly Acidic Cation Resin Gel-Type

Descriptions

HYDROLUX[®] **S1467 HD** is a food grade, strongly acidic cation exchange resin (Gel Type) of standard bead size distribution (0.3~1.2 mm). It has styrene-divinylbenzene copolymer with sulfonic acid functional group.

HYDROLUX [®] **S1467 HD** has high operating capacity, excellent mechanical, chemical stability and high whole bead count. All this traits will help you to get pure water at ease and steadily.

HYDROLUX[®] **S1467 HD** is supplied by Na⁺ form and it is used for softening of solutions, especially for thin juices of the sugar and pectin industries. It could also use for decationonisation of solutions of organic products, e.g. sugar beet, sugar cane, starch sugar, glycerine, gelatine, whey and food acids etc. and use for extraction of amino acids, e.g. lysine.

HYDROLUX[®] S1467 HD is certified by TFDA (Taiwan Food and Drug Administration) for Food Additives, and assure compliance with the TFDA Food safety and sanitation regulations. The certificate no. is 衛部添製字第 002840 號



Specification

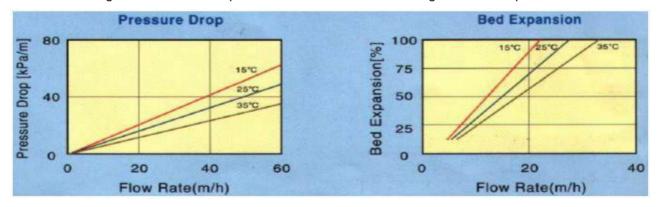
Туре	Strongly Acidic Cation
Matrix	Polystrene + DVB (Divinyl Benzene)
Functional Group	R-SO₃¯
Ionic Form	Na ⁺
Shipping Weight (g/L)	830 ± 5%
Specific Gravity	1.29 approx.
Total Capacity (eq/L)	2.0↑
Moisture Contents (%)	46 ± 5
Uniformity Coefficient	≤ 1.6
Effective Size (mm)	0.4↑
Whole Perfect Beads (%)	95 min
Maximum Swelling	$H^{+}/Na^{+} = 1.08$
Operating Temp	120°C
Operating pH Range	0~14

Operating Data

Maixmum Temperature ···	120°C
pH Range ····	0~14
Minimum Bed Depth ···	800mm
Service Flow Rate ···	16~32 BV/h
Velocity ····	12~40 m/h
Pressure Drop ···	Refer to Figure 1.
Backwash Flow Rate ···	Refer to Figure 2.
Regenerant ····	HCl or H₂SO4
Regenerant Level ···	HCI 50~80g/L-R, H₂SO₄ 80~120g/L-R
Concentration ···	4~8% HCI, 1~3% H₂SO₄
Flow Rate ····	2~8 BV/h
Regenerant Contact Time ···	20 minutes (min)
Temperature ····	Ambient
Rinse Water Requirement ···	4~10 BV
Displacement Rinse Rate ···	2~8 BV/h
Fast Rinse Rate ···	16~32 BV/h
Swelling Na ⁺ to H ⁺ ···	About 8%

Figure 1. Pressure Drop

Figure 2. Bed expansion





Handling

To protect eyes and skin of operator, protective gears such as glasses, sometimes gloves are necessary. It is recommended that eye-wash facilities are nearby at the using area. Since it is small beads type, it will be very slippery when it is spilled on the floor. Exposure to high temperature, sparks and flames should be avoided.

Exposure to or mixing with oxidizing agents like nitric acid also should be avoided for the safety.

Storage

Dry, cool and dark places with ventilation are recommended. Storage container bags or drums should be tightly sealed to prevent intrusion of impurities and drying. At high temperature, degradation of capacity may occur and below freezing temperature, freezing of resin may occur. The freezing may cause physical breakage leading to low whole bead count.

Disposal

There are two ways to dispose of resins. Unused ones could be discarded by landfill or incineration following local regulations with fore-mentioned cautions. For incineration, furnace equipped with suitable safety measures is necessary because toxins such as SOx, NOx, COx could be generated. Used ones could be landfilled or incinerated as well but poisonous materials like heavy metals, if they are contained, should be removed before resins be discarded.

Packaging

25L PE Bag / 1,000L Ton bag

Hydrolux Technology Co., Ltd. We are experts on liquid purification

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