

# HYDROLUX<sup>®</sup> MDK535

## Strongly Acidic Cation Resin Gel-Type

### Descriptions

**HYDROLUX<sup>®</sup> MDK535** is a food grade, strongly acidic cation exchange resin (Gel Type). It has styrene-divinylbenzene copolymer with sulfonic acid functional group.

**HYDROLUX<sup>®</sup> MDK535** has high operating capacity, excellent mechanical, chemical stability and high whole bead count. All this traits will help you to get better quality at ease and steadily.

**HYDROLUX<sup>®</sup> MDK535** comprise of beads within  $320\pm 30\ \mu\text{m}$  of particle size. This property of mono-dispersed particle distribution allows operators of resin to use it in more superior conditions such as fast diffusion time, mechanical/chemical stability and better effluent quality.

**HYDROLUX<sup>®</sup> MDK535** is supplied by  $\text{Ca}^{2+}$  form and it is used for as Fructose & Glucose Separation, pharmaceutical ,fermentation, etc.

**HYDROLUX<sup>®</sup> MDK535** 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 002975 號

## Specification

Type	Strongly Acidic Cation
Matrix	Polystyrene + DVB (Divinyl Benzene)
Functional Group	R-SO <sub>3</sub> <sup>-</sup>
Ionic Form ≥ 98%	Ca <sup>2+</sup>
Shipping Weight (g/L)	840 ± 5%
Total Capacity (eq/L)	1.6↑
Moisture Contents (%)	50 ± 5
Uniformity Coefficient	≤ 1.1
Particle Size (mm)	0.32 ± 0.03
Whole Perfect Beads (%)	95 min
Operating pH Range	0~14
Operating Temp	120°C

## 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 SO<sub>x</sub>, NO<sub>x</sub>, CO<sub>x</sub> 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*

#### HEADQUARTERS

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