

HYDROLUX[®] S7598

Strongly Basic Anion Resin Macroporous-Type

Descriptions

HYDROLUX[®] S7598 is a food grade strongly basic anion exchange resin (Macroporous Type I) with harmonic particle sized beads. It has Acrylic-DVB copolymer with TMA (trimethylammonium) functional group.

HYDROLUX[®] S7598 which high porosity of its macroporous structure allows excellent removal of large organic molecules from liquid sugures and other food streams, and provides excellent desorption of the organic color bodies during regeneration eliminating the fouling

HYDROLUX[®] S7598 is supplied by Cl⁻ form. It can be used as decolorisation resin for highly colored suger solutions on in combination with **HYDROLUX[®] S7598** where the latter is used as a polisher for very low color final products.

HYDROLUX[®] S7598 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 002974 號

HYDROLUX

We are experts on liquid purification

Type	Strongly Basic Anion
Matrix	Acrylic + DVB(Divinyl Benzene)
Functional Group	$\text{R-N}^+(\text{CH}_3)_3\text{Cl}^-$
Ionic Form	Cl^-
Shipping Weight (g/L)	$700 \pm 5\%$
Specific Gravity (g/ml)	1.05 or 1.1 approx.
Total Capacity (eq/L)	0.8↑
Moisture Contents (%)	70 ± 5
Uniformity Coefficient	≤ 1.6
Particle Size (mm) $\geq 95\%$	0.425~1.25
Whole Perfect Beads (%)	90 min
Maximum Swelling (%)	$\text{Cl}^- \rightarrow \text{OH}^- = 23$
Operating Temp Cl^-	80°C max
Operating pH Range	0~14

Operating Data

Maximum Temperature ...	80°C
pH Range	0~14
Minimum Bed Depth ...	800mm
Service Flow Rate ...	16~32 BV/h
Velocity	12~24m/h
Pressure Drop ...	300 kPa (max.)
Backwash Flow Rate ...	
Flow at 50% Expansion, Cl ⁻ ..	2.7 m/h at 25°C
Flow at 80% Expansion, Cl ⁻ ..	4.4 m/h at 25°C
Regenerant	NaOH
Regenerant Level ...	50~100g/L -R
Concentration ...	4~5%
Flow Rate	2~4 BV/h
Regenerant Contact Time ...	20 minutes (min.)
Temperature ...	Ambient, for Silica removal at 50°C(max)
Rinse Water Requirement ...	4~10 BV
Displacement Rinse Rate ...	2~8 BV/h
Fast Rinse Rate ...	19~32 BV/h
Swelling Cl ⁻ to OH ⁻ ...	23% (max.)

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_x, NO_x, CO_x 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
5F., NO.7-1, Sec. 1, NanChang Rd., Zhongzheng
Dist., Taipei City 10074, Taiwan
TEL +886 2 23966266 FAX +886 2 23964136

FACTORY
NO.19, Ln.777, Dondping Rd., Taiping Dist.,
Taichung City 41141, Taiwan