



# Descriptions

**HYDROLUX<sup>®</sup> M660** is a strongly basic anion exchange resin(Gel Type II) with uniform particle sized beads. It has styrene-divinylbenzene copolymer with DMEA(Dimethylethanol ammonium) functional group.

**HYDROLUX**<sup>®</sup> **M660** 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**<sup>®</sup> **M660** comprise of beads within 575±50 µm of particle size. This property of monodispersed 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> **M660** is supplied by Cl<sup>-</sup> form. It is mainly used for anion exchanger.

## Specification

Туре	Strongly Basic Anion
Matrix	Polystrene + DVB(Divinyl Benzene)
Functional Group	Dimethylethanol ammonium
Ionic Form	CI
Shipping Weight (g/L)	700 ± 5%
Specific Gravity (g/ml)	1.11 approx.
Total Capacity (eq/L)	1.3↑
Moisture Contents (%)	48 ± 5
Uniformity Coefficient	≤ 1.1
Particle Size (mm)	0.575 ± 0.05
Whole Perfect Beads (%)	95 min
Maximum Swelling	OH <sup>-</sup> / Cl <sup>-</sup> = 1.14
Operating Temp	70°C max
Operating pH Range	0~14

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## **Operating Data**

Maixmum Temperature ···	40°C (OH⁻) ,70°C (Cl⁻)
pH Range ····	0~14
Minimum Bed Depth ···	800mm
Service Flow Rate ···	16~32 BV/h
Velocity ····	12~40m/h
Pressure Drop ···	Refer to Figure 2.
Backwash Flow Rate ···	Refer to Figure 1.
Flow at 50% Expansion, Cl	4.0 m/h at 25℃
Flow at 80% Expansion, Cl ···	6.6 m/h at 25°C
Regenerant ····	NaOH
Regenerant Level ···	50g/L –R (min.)
Concentration ···	2~6%
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 ···	16~32 BV/h

Swelling Cl<sup>-</sup> to OH<sup>-</sup> ···



#### 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.

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