

ION EXCHANGER



SH

Applications

SH ion exchange column is a strong cationic resin for water purification. This cationic resin is specially designed to remove ammonia from condensed circuits. This allows the product to be used with equipment made with copper elements.

The absence of ammonia also allows conductivity measurements to be made on samples to assess the condition of all the water flowing through the system. The resin's high grain integrity, excellent chemical quality and physical stability make it ideal for the above uses and for the demineralization of high purity mixed beds where self indication is required.

The product contains extremely low levels of other metal cations prior to being carefully converted to high purity hydrogen. It will only work on the cationic charge part of the water and in the condensate and will not modify the anionic part. This resin has the same capacity as the cationic component in the mixed beds but with less impurities. If the SH column has to treat the condensate, it will do more cycles.

Description

The water flowing in a condensate circuit must be pure and free of dissolved salts in order to minimize corrosion. To achieve this, the circuit's pH is made alkaline by using 2-5 ppm of ammonia. The conditioning of the ammonia increases the conductivity, these variations in conductivity caused by small leaks from the condenser remain undetectable.

Small amounts of water, released from the ammonia, are required to cool some circuits containing copper components. The SH ion exchanger is used to remove the ammonia from the water. This water can then be used in various processes. The resin will progressively change color from ochre to dark red once it is saturated with ammonia. The cartridge should be changed when the resin is completely saturated.

Properties

- **Structure:**
Polystyrene gel type and divinylbenzene
- **Functional groups:**
Sulfonic acid
- **Ionic form:**
Hydrogen - H⁺ (99,9% minimum)
- **Total Exchange Capacity**
Cation form NA⁺ : 1,9 éq/l
- **Moisture retention:**
53 to 57%
- **Color change:**
New **AMBER**, saturated **RED**

Characteristics

- **Pression maximum:**
3 bar à température ambiante
- **Minimum treated volume:** 180 L at 25°F
- **Flow rate:** up to 20 liters/hour
- **Working temperature:** 10-120°C
- **Storage:**
1 year, in its original packaging, at room temperature
- **Dimensions:** 500x60 mm
- **Weight:** 1,35 kg