

Product Data Sheet

TREION™ IWT H/OH

Mixed-Bed Resin for Industrial Water Treatment Applications

DESCRIPTION

TREION™ IWT H/OH is an ionically equilibrated Mixed-Bed Resin. It is a ready-to-use mixture of a strong acid cation exchanger with a strong base type 1 anion exchanger.

TREION[™] IWT H/OH is a non-regenerable virgin Mixed-Bed Resin produced exclusively for Treitel Chemical Engineering by DuPont[™] Water Solutions.

TREION™ IWT H/OH is a cost-effective solution for industrial water treatment applications requiring economic production of demineralized water.

Cation component: ~40 %
Anion component: ~60 % H ⁺ / OH ⁻ 721 g/L Insoluble in water, dilute solution of acids or bases and common solvents
60°C
700 mm
15 to 40 BV*/h

TREITEL CHEMICAL ENGINEERING LTD.

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PERFORMANCE

Operating Capacity

The operating capacity of TREION[™] IWT H/OH Mixed-Bed Resin can be estimated using the following formula, which gives an approximate determination of volume of water that can be treated:

$$BV = \frac{496}{TDS}$$

BV (Bed Volume) is the number of Liters of feedwater containing TDS (Total Dissolved Solids) given in meq/L that can be demineralized with one Liter of the resin when run to exhaustion.

Treated Water Conductivity

In most applications, TREION[™] IWT H/OH Mixed-Bed Resin provides demineralized water with conductivity lower than 0.5 µS/cm and neutral pH.

LIMITS OF USE

TREION[™] IWT H/OH is suitable for industrial uses. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Treitel Chemical Engineering in order to determine the best resin choice and optimum operating conditions.

TRADEMARKS

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CAUTION

lon exchange resins, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application.

Except where specifically otherwise stated, Treitel Chemical Engineering does not recommend ion exchange resins, as supplied, as being suitable or appropriately pure for any particular use. Consult Treitel Chemical Engineering representative for further information.

Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with Ion Exchange resins. Proper design of process equipment to prevent rapid build-up of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.

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