



Genesis Water Technologies, Inc.
“Using Innovation To Meet The Water Needs Of The World”



GWT Series MBDI - CI20 Color Changing Mixed Bed Resin

GWT MBDI Series - CI20 is a mixed bed resin with color change indication upon resin exhaustion.

The resin is a strongly basic gel type I anion resin with an indicator dye color change, which changes from blue to brown as the resin is exhausted.

GWT Series MBDI - CI20 is designed to provide demineralized water with a resistivity greater than 10 megohms.

It is used in both clear cartridge filters for point of use (POU) applications and in mixed bed DI tanks with view ports for point of entry (POE) applications.

Systems using this resin are designed without conductivity meters and other instruments, but depend on the color change indication of this particular mixed bed resin for resin replacement.

In normal operation, when the resin color changes in the mixed bed cartridge or DI media tank it is replaced by another filter or DI tank or in larger tank applications the resin media is replaced with new resin media.

In POU (point of use) applications, a constant supply of high purity water can be obtained using two cartridges in series and allowing the first cartridge to completely change color. In this method, the second cartridge ensures that the water leaving the system is the highest degree of purity. The new cartridges are placed in the polishing position (second position) and the original polishing cartridge is placed in the primary position. This allows full use of all the exchange capacity of the mixed bed resin, which reduces operating costs and increases the average water quality.

This process is similar in the POE (Point of Entry) applications, a constant supply of high purity water can be obtained by using two mixed bed resin tanks and allowing the first tank to complete the resin color change. In this method, the second tank is a polishing tank to ensure that water leaving the system is of high purity. New tanks are placed in the polishing position (second position) and older polishing tanks are placed in the primary position. This process also allows for full use of all the exchange capacity of the mixed bed resin, which reduces operating costs and increases the average water quality.

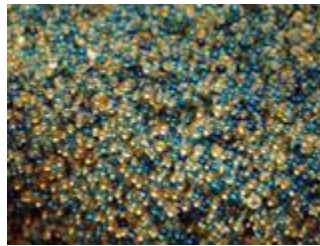


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Product benefits:

- Easy to use
- High volume capacity
- The color changing properties of the resin indicate the replacement of the resin without the use of tools or analytical devices such as conductivity meters.

MBDI-CI20



Particle Size of Resin – 25X amplified



MBDI-CI20 Physical Characteristics:

Color Change: Blue to Brown as resin is exhausted
Anion: $\text{RSO}_3 \text{H}$ – Hydrogen Form
Cation: $\text{R}_4\text{N OH}$ – Hydroxyl Form
Ionic Form: H^+ / OH^-
Spherical Nature: 90 + %
Volume Ratio: 1:1 (anion/cation)
Total Capacity:
Cation: 1.9 meq/ml (Na form)/Anion 1.25 meq/ml (Cl form)
Shipping Packaging: 5 or 7 ft cubic foot drums

pH Range: 0-14
Physical Form: Spherical beads
Moisture Content : 65% maximum
Approximate Weight: 43 lb / ft³
Service Flow: 2-10 gpm / ft³
Max Temperature:
Not Regenerable Form: (80 C)
Regenerable Form: (50 C)



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WARNING : DO NOT MIX ION EXCHANGE resin with strong oxidizing agents . Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials such as ion exchange resins.

MSDS Sheets are available for all products GWT and can be obtained by e – mail sales@genesiswatertech.com . We recommend that you secure and study the pertinent MSDS for our products and any other products that are being used. The information contained in this bulletin is offered in good faith and are based on information believed to be reliable, but no warranty or guarantee is implied or offered . It is the user's responsibility to use the MBDI-CI20 resin product safely and lawfully as per specifications of the particular resin.

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