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Ion Exchange Resins - Troubleshooting

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What should I do when my ion exchange resins are not working?

Initially, we recommend that you consult your original equipment manufacturer (OEM) and discuss your performance problem since they are most familiar with your system. However, the following link can help you troubleshoot and solve your problem. Ion Exchange Troubleshooting Guide

Common problems encountered by a water treatment plant user include insufficient throughput (http://dow-answer.custhelp.com/cgi-bin/dow-answer.cfg/php/enduser/std_adp.php?p_faqid=4275) (plant capacity) between regenerations; poor product water quality. (http://dow-answer.custhelp.com/cgi-bin/dow_answer.cfg/php/enduser/std_adp.php?p_faqid=4273); increased rinse volume (http://dow-answer.custhelp.com/cgi-bin/dow_answer.cfg/php/enduser/std_adp.php?p_faqid=4273); increased rinse volume (http://dow-answer.custhelp.com/cgi-bin/dow_answer.cfg/php/enduser/std_adp.php?p_faqid=4273); following regeneration; high pressure drop (http://dow-answer.custhelp.com/cgi-bin/dow-answer.cfg/ppp/enduser/std_adp.php2p_fagid=4279) across a vessel, leading to insufficient flow rate, or shortened resin life (http://dow-answer.custhelp.com/cgi-bin/dow-answer.cfg/php/enduser/std_adp.php2

Any one or a combination of the following may be the cause:

- Change of Raw Water Composition
- Incorrect Process Parameters
- · Mechanical Failure of Equipment
- · Poor Ion Exchange Resin Performance

From our experience, the majority of troubleshooting cases are related to mechanical, equipment, or operational failures. It is therefore recommended to take a wide view of the whole plant operation (including the pretreatment) when troubleshooting

If you do not know the cause of your problem, you may want to have us run an analysis to help identify the cause and direct your efforts to optimize system performance. Analysis of ion exchange resins that have been used in service is available from Dow under the System Optimization Services program for a nominal fee

For further information, please download the appropriate brochure for your location:

Step 1: Review Resin Sampling Procedure

Step 2: Fill out Analysis Request Form Step 3: Review Available Testing Services for Ion Exchange Resins

Step 4: Review Ion Exchange Resin Analysis - Price Sheet

Step 5: Fill out Shipping Instructions
Complete information is included in the following links (dependent on application):

lon Exchange Resin Analysis for the Water and Process Industries (http://www.dow.com/webapps/include/GetDoc.aspx?filepath=liquidseps/pdfs/noreg/177-01771.pdf) (404KB PDF)

Europe, Middle East, Africa Resin Analysis Information (753KB PDF)_(http://www.dow.com/webapps/include/GetDoc.aspx?filepath=liquidseps/pdfs/noreg/177-01996.pdf)

 $\underline{lon \, Exchange \, Resin \, Analysis \, Guide \, for \, the \, Sweetener \, \underline{lndustry.(http://www.dow.com/webapps/include/GetDoc.aspx?filepath=liguidseps/pdfs/noreg/177-01802.pdf)} \, (PDF)$

Request Form for Resin Analysis (http://www.dow.com/webapps/include/GetDoc.aspx?filepath=liquidseps/pdfs/noreq/177-01776.pdf) (PDF)

 $\underline{Resin\ Sampling\ Procedure, Tech\ Fact\ (http://www.dow.com/webapps/include/GetDoc.aspx?filepath=liquidseps/pdfs/noreg/177-01758.pdf)\ (PDF)}$

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