Purolite® Buffered Resins

Minimizing Start-Up Headaches and Preserving Critical Influent Chemistry Levels

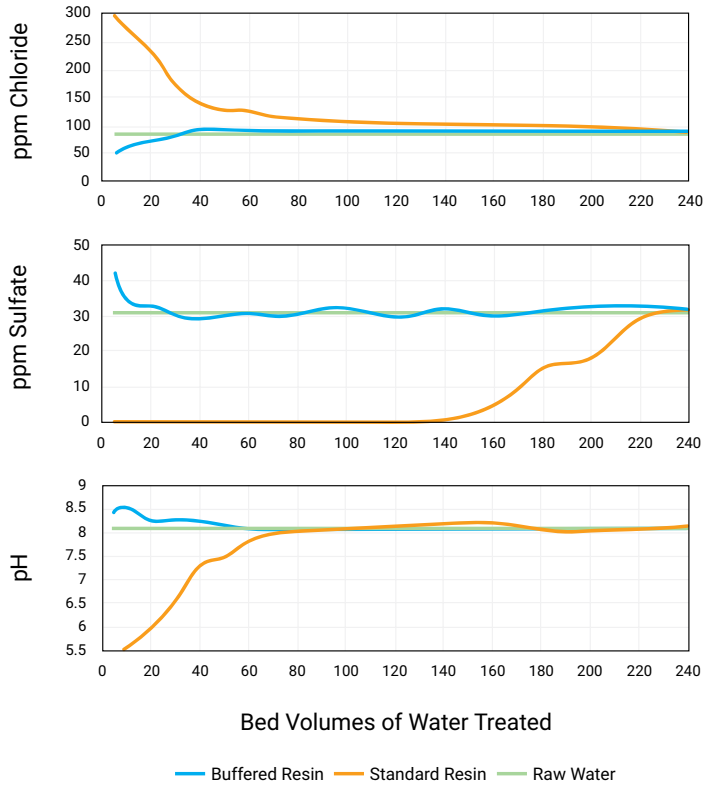
Anion exchange resins are recognized as best available technology for removal of harmful contaminants such as hexavalent chromium, perchlorate and PFAS. One major drawback of anion exchange resin systems at startup is that they simultaneously remove alkalinity, sulfate and other anions in exchange for chloride. Buffered resin can reduce the effects of water chemistry changes at startup by:

- Prevent effluent chloride from approaching or exceeding local discharge standards
- Prevent high chloride to sulfate mass ratio (CMSR) which can create lead leaching potential in piping systems
- Stabilize effluent pH and meet local discharge standard

Currently, standard chloride form resins are rinsed with influent water until the water chemistry equilibrates with the resin and the effluent levels match the influent levels. This may take a couple of days, depending on water chemistry and flow design. Understanding the burden of this initial rinse on operations, Purolite is now offering buffered resins for these critical ion exchange resin applications.

FIGURE 1

Typical Elution Profile of PFA694EBF at Startup Compared to Non-Buffered Version



Starting with buffered form resins get your system up and running in a fraction of the time as shown in Figure 1. This simplifies operations, saves time, and minimizes rinse water waste.

Purolite PGW6002EBF
The buffered form of PGW6002E, a high capacity strong base anion ideal for single-use operation removal of hexavalent chromium or uranium.

Purolite A532EBF
The buffered form of A532E, which shows high perchlorate selectivity.

Purofine® PFA694EBF
The buffered form of PFA694E, a resin tailored to reach non-detect levels of PFAS compounds.

NSF Certified to NSF/ANSI/CAN 61

A532EBF and PFA694EBF are NSF/ANSI/CAN 61 certified drinking water system components.

Learn more at:
www.purolite.com

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Purolite, a leading manufacturer of quality ion exchange, catalyst, adsorbent and specialty high-performance resins, focuses 100% of its resources on the development and production of resin technology.

We're ready to solve your process challenges. For further information on Purolite products and services, visit www.purolite.com or contact your nearest Technical Sales Office.

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