

CALRES™ 2301

Strong Base Anion Exchange Resin



Calgon Carbon offers a range of proprietary, high quality products under the CalRes brand, including CalRes 2301. This product was designed specifically to remove PFAS (poly-and perfluoroalkyl substances). CalRes 2301 is a selective strong base anion resin that possesses distinctive functionality provided in the chloride form.

APPLICATIONS

- PFAS
 - Groundwater
 - Surface Water
- Industrial/environmental water remediation

DESCRIPTION

CalRes 2301 is a styrene-based polymer resin with tributylamine functional groups which makes it highly selective for PFAS. CalRes 2301 is formulated to be certified to the requirements of NSF/ANSI/CAN 61 for use in municipal water treatment facilities. Only products bearing the NSF Mark are certified to the NSF/ANSI/CAN 61 - Drinking Water System Components - Health Effects standard. Certified Products will bear the NSF/WQA Gold Seal on packaging or documentation shipped with the product.

FEATURES & BENEFITS

- CalRes 2301 has a macroporous structure that allows for increased diffusion rates into the bead enhancing its performance.
- Consistent record of PFAS removal performance
- CalRes 2301 is the only PFAS resin recommended for surface water treatment because it can be disinfected with low levels of chlorine. Alternatively, gel resins will not withstand a chlorine disinfection.
- Calgon Carbon offers large equipment systems and related turnkey field services. Services include resin delivery and installation, as well as spent resin removal and disposal.
- Calgon Carbon has extensive technical support along with ISO 9001 certified quality control.

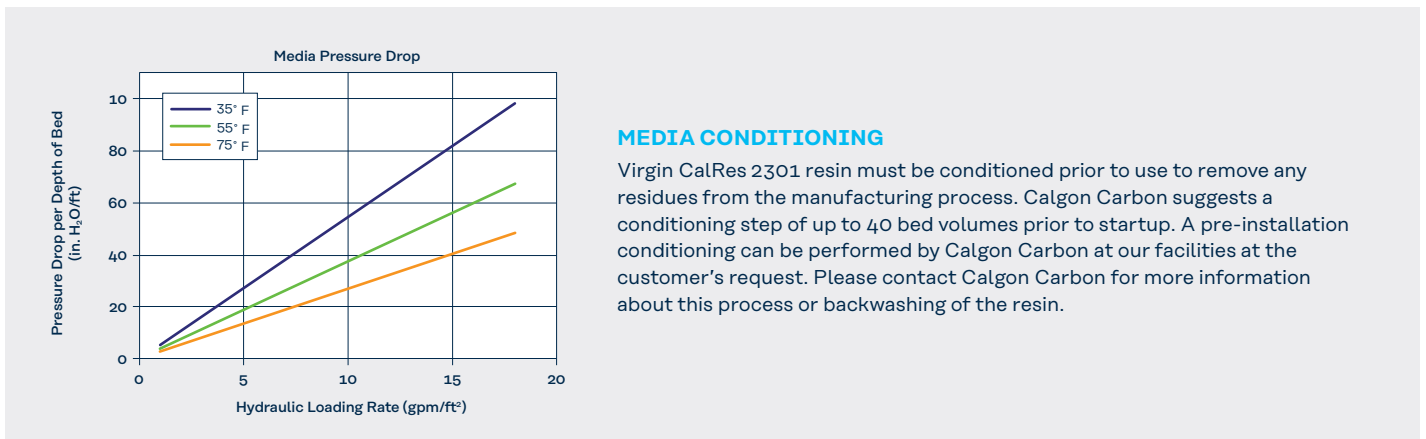
Physical and Chemical Properties

Type	Strong Base Anion (SBA)
Base Structure Polymer	Styrene
Matrix	Macro
Physical Form	Spherical Beads
Ionic Form	Chloride
Total Exchange Capacity	Min: 0.51 eq/L
Water Retention Capacity	48-60 wt%
Particle Size (Typical)	580 µm +/- 50 µm (16 x 50 US MESH)
Shipping Weight	40-47 lbs/cf

SAFETY

Before handling or using this product, please consult the current Safety Data Sheet.

Warning: Before using strong oxidizing agent, please consult knowledgeable sources for handling such material as these agents, such as nitric acid, can attack these organic resins under certain conditions and result in a slightly degraded resin up to an explosive reaction. Preferred storage is to be between 0-50C in a dry place.



MEDIA CONDITIONING

Virgin CalRes 2301 resin must be conditioned prior to use to remove any residues from the manufacturing process. Calgon Carbon suggests a conditioning step of up to 40 bed volumes prior to startup. A pre-installation conditioning can be performed by Calgon Carbon at our facilities at the customer's request. Please contact Calgon Carbon for more information about this process or backwashing of the resin.