



Ion Exchange Resins

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CATALOG

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ION EXCHANGE RESINS

ResinTech Inc., an acknowledged leader in ion exchange, manufactures a broad range of ion exchange resins for water and wastewater treatment, including deionization, softening, metals removal, product purification, resource recovery, and pollution control. Every batch of resin sold by ResinTech is fully tested and must pass the full battery of QC testing before being placed in active inventory. Standard QC procedures are equivalent to ASTM methods. All ResinTech products are manufactured to specifications that meet or exceed all published specifications for other manufacturers' equivalent products.



FIG NO.	MFR'S CODE	STRONG ACID CATION RESINS
208278 208815 208095	CGS-BL Black 1 cu. ft. Skid/42 bags Supersack/42 cu. ft.	ResinTech CGS-BL is a high purity, dark colored, high capacity, gel type sulfonated polystyrene cation resin supplied in the sodium form as moist, tough uniform spherical beads. ResinTech CGS-BL specifically is intended for use in all water softening applications, including beverages, potable water and water used for food processing. Its high capacity and DVB content provide long life in all potable water applications. (It is also available as a light colored product – ResinTech CGS – with identical properties.)
234315 234316	CGS Amber 1 cu. ft. Skid/42 bags	ResinTech CGS is a light colored, high capacity, gel type sulfonated polystyrene cation resin supplied in the sodium form as moist, tough uniform spherical beads. ResinTech CGS is intended for use in water softening applications. (It is also available as a dark colored product – ResinTech CGS-BL – with identical properties.)
107546	CG8SBL	ResinTech CG8-BL is a premium grade, high capacity, gelular, sulfonated, polystyrene cation resin supplied in the sodium or hydrogen form as moist, tough, uniform, spherical beads. ResinTech CG8-BL-HP is intended for use in all water softening, dealkalization, deionization and chemical processing applications.
202001	CG8-F Fine Mesh	ResinTech CG8-F is a premium grade, high capacity, gelular, sulfonated, polystyrene cation resin supplied in the sodium or hydrogen form as moist, tough, uniform, spherical beads. ResinTech CG8-F is intended for use in all water softening, dealkalization, deionization and chemical processing applications.
5145 4	C266/A4102 Ionac Fine Mesh	C266 is a premium grade gelular strong acid cation exchange resin, in the sodium form, manufactured without the use of solvents. C266 is manufactured with a smaller effective bead size when compared to most standard softening resins. C266 is characterized by having a greater surface area and shorter diffusion path, which results in improved kinetics and improved efficiency.
232852	CG10	ResinTech CG10 is a premium grade, high capacity, gelular, sulfonated, polystyrene cation resin supplied in the sodium or hydrogen form as moist, tough, uniform, spherical beads. ResinTech CG10 is intended for use in all water softening, dealkalization, deionization and chemical processing applications.

FIG NO.	MFR'S CODE	STRONG BASE ANION RESINS
183961	SBG1P-HP Strong Base	ResinTech SBG1P is a chloride form type 1 porous gel strong base anion resin. SBG1P has higher moisture content and lower ion exchange density than SBG1. This results in higher operating capacity, better chemical efficiency and improved resistance to fouling. ResinTech SBG1P is intended for use in the hydroxide form for all types of deionizing systems as well as in the chloride form for removal of contaminants such as nitrate, arsenate, chromate, uranium, etc. SBG1P-OH is especially well suited for use in working mixed beds. SBG1P is available in the chloride form or in the hydroxide form (when ordered as SBG1P-OH).
91071	SBG2-HP Strong Base	ResinTech SBG2 is a chloride form type 2 gel strong base anion resin. SBG2 has high capacity, high chemical efficiency and good resistance to fouling. ResinTech SBG2 is intended for use in the chloride form for removal of contaminants such as nitrate, arsenate, chromate, uranium, etc., as well as in the hydroxide form for all types of deionizing systems. SBG2-OH is especially well suited for use for systems where amine odors might be objectionable. ResinTech SBG2 is supplied in the chloride form or in the hydroxide form (when ordered as SBG2-OH).
51455	SIR100-HP Nitrate	ResinTech SIR-100-HP is a strong base anion exchange resin supplied in the chloride form as moist, tough, uniform spherical beads. It is especially useful in nitrate removal applications due to its ability to remove nitrates preferentially in the presence of sulfates and other divalentions. The use of ResinTech SIR-100-HP eliminates nitrate dumping and retains a greater degree of its operating capacity in the presence of high levels of sulfates where standard anion resins such as ResinTech SBG1, SBG1P, or SBG2, would suffer loss in operating efficiencies and exhibit nitrate dumping in the presence of sulfates. *ResinTech SIR-100-HP is also intended for use in applications involving monovalent and divalent ions where the monovalent ion must be removed preferentially, such as in removing perchlorates from ground waters
207286	SIR-300 pH Adj. 4	ResinTech SIR-300 is a macroporous weak acid cation exchange resin based on the iminodiacetate acid functional group, which has chelating properties for heavy metal ions even against high concentrations of calcium. It is intended for use in polishing heavy metal ions from near neutral industrial wastes and process streams, and recovery of precious metals. ResinTech SIR-300 is supplied in the sodium form as moist, tough, uniform spherical beads.
217420	SIR-110HP Perchlorate	ResinTech 110-HP is a strong base anion resin supplied in the chloride form as moist, tough, uniform spherical beads. It exhibits an unusually high preference for perchlorate and a very low affinity for multivalent ions, It is the resin of choice for single-use perchlorate removal applications. It is also suggested for nitrate removal applications where brine recovery is practiced. The use of ResinTech SIR-110-HP essentially eliminates all monovalent "dumping" making it also highly useful in nitrate removal applications. Its nitrate and perchlorate operating capacity is virtually unaffected by the presence of sulfates.

ION EXCHANGE RESINS



FIG NO.	MFRS CODE	SPECIALTY RESINS
67665	SIR-22P Tannin	ResinTech SIR-22P-HP is a special purpose ion exchanger specifically designed to remove tannins, organic color, and other naturally occurring organics including organo-metallic complexes (such as heme iron) from water. ResinTech SIR-22P-HP is intended primarily for use as an organic trap in a stand-alone unit in conjunction with other ion exchange processes such as softening or demineralization. In certain situations ResinTech SIR-22P-HP can be used in the same vessel as the softener resin, as a separate upper layer. It is supplied in the chloride form as moist, tough, uniform spherical beads.
176448	ASM-10-HP Arsenic	ResinTech ASM-10-HP is a strongly basic hybrid anion exchange resin specially formulated to selectively remove arsenic. It is supplied in the salt form as clean, moist, tough, uniform, spherical beads. ResinTech ASM-10-HP exhibits extraordinary throughput capacity in arsenic removal service on potable water supplies. Its performance is virtually unaffected by common anions, such as chlorides, bicarbonates or sulfates. It is effective over the entire pH range of potable water. ResinTech ASM-10-HP is also available in organic trap, perchlorate selective and nitrate selective configured resins. These resins are fully selective for arsenic, but still retain their original ion exchange selectivity.
MIXED BED / DI		
45382	MBD10 Mixed Bed	ResinTech MBD-10 is a mixture of hydroxide form Type One strong base gel anion exchange resin and hydrogen form strong acid sulfonated gelular polystyrene cation exchange resin in a 1:1 (H/OH) ratio. It is available in Nuclear (NG), Semiconductor (SC), Low TOC (LTOC) and ULTRA Grades.
57536	MBD-15SC Mixed Bed	Semiconductor grade - Tested to 18 megohm as a polisher. Rinses to below 50 ppb TOC in under 50 bed volumes
157914	MBD-15NG Mixed Bed	Nuclear grade - General purpose mixed beds and PEDI. Tested to 15+ megohm under dynamic load

MOST RESINS AVAILABLE AS NUCLEAR GRADE ("-NG") OR SEMICONDUCTOR GRADE ("-SG"); SOME AVAILABLE AS UNIFORM PARTICLE SIZE ("-UPS") OR ULTRAPURE ("-ULTRA").	
NG	Tested to 15+ megohm under dynamic load
SC	Similar to NG grade. Tested to 18 megohm as a polisher. Rinses to below 50 ppb TOC in under 50 bed volumes
UPS	Intended for use in applications such as packed beds and where a uniform particle size resin is useful to improve performance or reduce pressure loss.
ULTRA	Uniquely low in Organic and Inorganic impurities; manufactured from the highest purity monomers and is post-treated using a proprietary process.



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How to Order

Submit your order online

or

email info@duffco.com

Be sure to include

product numbers

descriptions

quantities

Don't forget to include your name!

Contact name _____ Contact Date _____

	<h2 style="margin: 0;">DUFF COMPANY</h2> <p style="margin: 0;">201 East Lafayette Street Norristown, PA 19401</p> <p style="margin: 0;">Phone: 610-275-4453 Fax: 610-279-6761</p>	
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Legal Name _____

Name in which business is conducted _____

Billing Address _____

City _____ State _____ Zip _____

Purchasing Phone _____ A/P Phone _____ Fax _____



Principal's Name _____

Principal's Address _____

City _____ State _____ Zip _____

Phone (Office) _____ (Cell) _____ E-mail address _____

Website address (If applicable) _____

Primary Contact _____ Title _____



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Shipping Address _____ Phone _____

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Tax Exempt Number _____ Provide a copy of Certificate. We CAN NOT set up a Tax Exempt Account without certification.



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Have you been contacted by one of our salesman? _____ Name _____

If YES, please explain _____

Name of person authorized to pick up _____

D&B Rating _____ Check one: Corporation _____ Partnership _____ Individual Proprietor _____

If division of another company, name parent company and relationship _____

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TRADE REFERENCES

Name _____ Type of business _____

Address _____

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Phone _____ Fax _____



Name _____ Type of business _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



Name _____ Type of business _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



Bank reference _____

Branch Address _____

City _____ State _____ Zip _____

Branch officer who handles account _____

In consideration of your opening the above account and/or extended credit, the undersigned hereby agrees that all information supplied in this application is correct, that all accounts are to be paid in full to Duff Company monthly by the tenth day of the month following the invoice date, that a 1% service charge and a 1% interest charge will be made on any balance open at the end of the month following invoice date, and that in the event that legal action or lien be taken, or the service of a collection agency are used to collect this account, the undersigned shall pay all expenses incurred by the Duff company, such as, but not limited to, collection fees, costs and legal fees.

Applicant (Name of Account) _____

By _____ Title _____

The undersigned _____ and _____ for good and valuable consideration, hereby jointly, severally and personally unconditionally guarantee, warrant and promise the full and prompt (within terms) payments of all bills and other obligations (as set forth above) of the applicant in connection with any credit extended to the applicant by Duff Company.*

Principal _____ Witness _____ Principal's Spouse _____ Witness _____

Principal _____ Witness _____ Principal's Spouse _____ Witness _____

We routinely fax invoices to our customers. Please provide a fax number where we can send invoices _____

PLEASE FAX FORM TO 610-275-6761

*As appropriate, we may also require the guarantee of a principal and, in some cases, the principal's spouse.

For Duff Company Use Only

Credit Limit: _____	Contact: _____	Certificate Recd: _____
Tax Jurisdiction: _____	General Manager _____	Type: _____
Salesman: _____	Class: _____	Controller: _____
	Date Approved: _____	