



ION EXCHANGE RESINS TYPICAL PROPERTIES

Resin Products



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CATION RESINS

SODIUM FORM STRONG ACID CATION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
CGS*	Strong Acid Gel	Na	1.9	40 to 52	16 to 50 (0.3 to 1.2)	50	Residential grade strong acid cation resin suitable for domestic softening, also useful in chemical processing. WQA Gold Seal certified to ANSI/NSF 44 and 61.
CGS-BL*	Strong Acid Gel	Na	1.9	40 to 52	16 to 50 (0.3 to 1.2)	50	Dark colored residential grade strong acid cation resin suitable for domestic softening, also useful in chemical processing. WQA Gold Seal certified to ANSI/NSF 61.
CG8*	Strong Acid Gel 8% Crosslinked	Na	2	42 to 49	16 to 50 (0.3 to 1.2)	52	Industrial grade strong acid cation resin suitable for separate bed deionization, softening, and chemical processing. WQA Gold Seal certified to ANSI/NSF 61 when ordered as CG8-HP.
CG8-BL*	Strong Acid Gel 8% Crosslinked	Na	2	42 to 49	16 to 50 (0.3 to 1.2)	52	Dark colored industrial grade strong acid cation resin suitable for separate bed deionization, softening, and chemical processing. WQA Gold Seal certified to ANSI/NSF 61 when ordered as CG8-BL-HP.
CG8-F*	Fine Mesh Strong Acid Gel 8% Crosslinked	Na	2	42 to 52	30 to 50 (0.3 to 0.6)	52	Reduced bead size strong acid cation resin intended for waters with high iron content and applications where faster kinetics are required. WQA Gold Seal certified to ANSI/NSF 61 when ordered as CG8-F-HP.
CG8-C*	Coarse Mesh Strong Acid Gel 8% Crosslinked	Na	2	42 to 49	16 to 30 (0.6 to 1.2)	52	Coarse bead size strong acid cation resin intended for high flow rate applications where low pressure loss is important. WQA Gold Seal certified to ANSI/NSF 61 when ordered as CG8-C-HP.
CG10	Strong Acid Gel 10% crosslinked	Na	2.2	39 to 45	16 to 50 (0.3 to 1.2)	54	Premium grade strong acid cation resin intended for applications where superior physical and chemical durability are required.
CG10-BL	Strong Acid Gel 10% crosslinked	Na	2.2	39 to 45	16 to 50 (0.3 to 1.2)	54	Dark colored premium grade strong acid cation resin intended for mixed beds where a clear color difference from the anion resin and near perfect separation is desired.
CG10-C	Coarse Mesh Strong Acid Gel 10% Crosslinked	Na	2.15	39 to 45	16 to 30 (0.6 to 1.2)	54	Coarse bead size industrial grade strong acid cation resin intended for high flow rate applications where low pressure loss and superior physical and chemical durability is desired.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

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SODIUM FORM STRONG ACID CATION RESINS (CONT.)

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SACMP*	Strong Acid Macroporous	Na	1.8	45 to 55	16 to 50 (0.3 to 1.2)	50	Macroporous strong acid cation resin intended for applications requiring high resistance to oxidative, thermal, and osmotic stress. Gold Seal certified to ANSI/NSF 61 when ordered as SACMP-HP.
SACMP-CP	Uniform particle size Strong Acid Macroporous	Na	1.8	45 to 55	20 to 40 (0.42 to 0.84)	50	Condensate polisher grade macroporous strong acid cation resin intended for high flow rate applications that require the highest possible resistance to oxidation, temperature, and osmotic stresses.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

MISC. STRONG ACID CATION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
CG8-K	Strong Acid Gel 8% Crosslinked	K	2.0	42 to 49	16 to 50 (0.3 to 1.2)	52	Potassium form industrial grade strong acid cation resin intended for use where the release of sodium ions into the water is undesirable or where the addition of potassium to the water is desired.
CG8-NH4	Strong Acid Gel 8% Crosslinked	NH4	2.0	42 to 49	16 to 50 (0.3 to 1.2)	50	Ammonium form industrial grade strong acid cation resin intended for condensate polishing applications where the polisher will be operated in the ammonia or other amine form.

HYDROGEN FORM CATION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
CG8-H-ID	Indicator Dye Strong Acid Gel 8% Crosslinked	H	1.8	43 to 58	16 to 50 (0.3 to 1.2)	50	Hydrogen form cation resin with an indicator dye that changes from purple to yellow as the resin exhausts. Intended for use in cation conductivity columns and disposable cartridges.
CG8-H	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Industrial grade strong acid cation resin in the "ready-to-use" hydrogen form; intended for all applications that require a hydrogen form cation resin.
CG8-H-SC	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Industrial grade strong acid cation resin in the "ready-to-use" hydrogen form; intended for all applications that require a hydrogen form cation resin. Tested to <50 ppb of TOC.
CG8-H-LTOC	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Industrial grade strong acid cation resin in the "ready-to-use" hydrogen form; intended for all applications that require a hydrogen form cation resin. Tested to <10 ppb of TOC.
CG8-H-ULTRA	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Industrial grade strong acid cation resin in the "ready-to-use" hydrogen form; intended for all applications that require a hydrogen form cation resin. Tested to <2 ppb of TOC.

HYDROGEN FORM CATION RESINS (CONT.)

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
CG8-H-BL	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Dark colored industrial grade strong acid cation resin in the "ready-to-use" hydrogen form intended for all application that require a hydrogen form cation resin.
CG8-H-BL-SC	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Dark industrial grade strong acid cation resin in the "ready-to-use" hydrogen form intended for all application that require a hydrogen form cation resin. Tested to <50 ppb of TOC.
CG8-H-BL-LTOC	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Dark industrial grade strong acid cation resin in the "ready-to-use" hydrogen form intended for all application that require a hydrogen form cation resin. Tested to <10 ppb of TOC.
CG8-H-BL-ULTRA	Strong Acid Gel 8% Crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Dark industrial grade strong acid cation resin in the "ready-to-use" hydrogen form intended for all application that require a hydrogen form cation resin. Tested to <2 ppb of TOC.
CG10-H	Strong Acid Gel 10% Crosslinked	H	2.0	44 to 52	16 to 50 (0.3 to 1.2)	51	Premium grade strong acid cation resin in the hydrogen form intended for applications that require higher resistance to oxidation and physical stresses.
CG10-H-BL	Strong Acid Gel 10% Crosslinked	H	2.0	46 to 52	16 to 50 (0.3 to 1.2)	51	Premium grade dark colored strong acid cation resin in the "ready-to-use" hydrogen form. Tested to >1.0 meg-ohm under dynamic load.
CG10-H-CP	Strong Acid Gel 10% Crosslinked	H	2.15	44 to 52	20 to 40 (0.4 to 0.8)	51	Condensate polisher grade black gel strong acid cation resin in the hydrogen form. Optimal size range for low pressure loss and good separation when combined with "CP" grade anion components.
CG16-H	Strong Acid Gel 16% Crosslinked	H	2.4	44 to 52	16 to 50 (0.3 to 1.2)	52	Very highly crosslinked, high capacity, hydrogen form gel strong acid cation resin intended for use in radwaste and other single use applications where the highest possible capacity is needed.
SACMP-H	Strong Acid Macroporous	H	1.7	45 to 55	16 to 50 (0.3 to 1.2)	48	Macroporous strong acid cation resin in the hydrogen form. Higher crosslinking, higher selectivity, a higher operating temperature and greater resistance to oxidation than other cation resins.
SACMP-H-CP	Uniform Particle Size Strong Acid Macroporous	H	1.7	45 to 55	20 to 40 (0.4 to 0.8)	48	Condensate polisher grade macroporous strong acid cation resin in the hydrogen form. Uniform particle size for low pressure loss and good separation when combined with "CP" grade anion components.

ResinTech Product Coding: Strong Acid Cation Resins

Code	Description	Code	Description	Code	Description	Code	Form	Code	Grade
C	Cation	G	Gel	S	Standard DVB	Blank	Sodium	F	Fine
SAC	Strong acid Cation	SAC	Macroporous	8	8% DVB	H	Hydrogen	C	Coarse
				10	10% DVB	K	Potassium	ID	Dyed
						NH4	Ammonium	BL	Black

CP=Condensate Polisher • UPS=Uniform Particle Size • SC=Semiconductor • LTOC=Low TOC • ULTRA=Ultrapure

HYDROGEN FORM WEAK ACID CATION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
WACG	Weak Acid Gel	H	4.2	43 to 60	16 to 50 (0.3 to 1.2)	48	Gel weak acid cation resin intended for dealkalization, deionization, and chemical processing where high chemical efficiency is required.
WACG-HP*	Weak Acid Cation	H/Na	4.0	43 to 60	16 to 50 (0.3 to 1.2)	47	High purity, pH buffered weak acid action intended for cartridge and other potable water applications where neutral pH effluent and fast kinetics are desired. WQA Gold Seal certified to ANSI/NSF 61.
WACMP	Weak Acid Macroporous	H	4.0	43 to 60	16 to 50 (0.3 to 1.2)	47	Macroporous weak acid cation resin intended for dealkalization, deionization, and chemical processing applications where superior physical and chemical durability are required.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

SODIUM FORM WEAK ACID CATION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
WACG-Na	Weak Acid Gel	Na	2.0	43 to 60 (H form)	16 to 50 (0.3 to 1.2)	48	Sodium form gel weak acid cation resin intended for heavy metals removal from wastewater streams, polishing traces of hardness and the removal of divalent ions from moderately high TDS.
WACMP-Na	Weak Acid Macroporous	Na	2.2	43 to 60 (H form)	16 to 50 (0.3 to 1.2)	48	Sodium form macroporous weak acid cation resin intended for heavy metals removal from wastewater streams, polishing traces of hardness and other divalent ions from moderately high TDS.

ResinTech Product Coding: Weak Acid Cation Resins

Code	Description	Code	Description	Code	Description
WAC	Weak Acid Cation	G	Gel	Blank	Hydrogen
		MP	Macroporous	Na	Sodium
				HP	Buffered

CP=Condensate Polisher • UPS=Uniform Particle Size • SC=Semiconductor • LTOC=Low TOC • ULTRA=Ultrapure

ANIONS RESINS

CHLORIDE FORM STRONG BASE ANION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SBG1P*	Strong Base Gel Type 1 Porous	Cl	1.3	51 to 60	16 to 50 (0.3 to 1.2)	43	Industrial grade type I porous strong base anion resin for separate bed deionization, softening, and chemical processing. WQA Gold Seal certified to ANSI/NSF 61 when ordered as SBG1P-HP.
SBG1*	Strong Base Gel Type 1	Cl	1.45	42 to 50	16 to 50 (0.3 to 1.2)	44	Premium grade type I strong base anion resin intended for separate bed deionization, softening, and chemical processing. WQA Gold Seal certified to ANSI/NSF 61 when ordered as SBG1-HP.
SBG1-C	Coarse Mesh Strong Base Gel Type 1	Cl	1.4	42 to 50	16 to 30 (0.59 to 1.2)	44	Coarse mesh type I strong base anion resin intended for high flow rate applications and for applications where suspended solids may be present.
SBG1-F	Fine Mesh Strong Base Gel Type 1	Cl	1.4	42 to 50	30 to 50 (0.3 to 0.59)	44	Fine mesh type I strong base anion resin intended for applications where very fast kinetics and increased surface area are needed.
SBG2*	Strong Base Anion Gel Type 2	Cl	1.35	36 to 49	16 to 50 (0.3 to 1.2)	44	Industrial grade type II strong base anion resin intended for separate bed deionization, softening, and chemical processing. WQA Gold Seal certified to ANSI/NSF 61 when ordered as SBG2-HP.
SBMP1	Strong Base Type 1 Macroporous	Cl	1.15	50 to 63	16 to 50 (0.3 to 1.2)	42	Macroporous type I strong base anion resin intended for applications that require higher selectivity, higher operating temperature and greater resistance to oxidation than other anion resins can tolerate.
SBACR	Strong Base Acrylic Gel	Cl	1.25	55 to 63	16 to 50 (0.3 to 1.2)	44	Acrylic strong base anion resin intended for use in organic traps and for deionization of surface waters with high fouling potential where the temperature does not exceed 90°F.
SBACR-MP	Strong Base Acrylic Macroporous	Cl	1.00	63 to 70	16 to 50 (0.3 to 1.2)	44	Macroporous acrylic strong base anion resin intended for use in organic traps and for waters with high organic fouling potential.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

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HYDROXIDE FORM STRONG BASE ANION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SBG1P-OH ID	Indicator Dyed, Type I Porous Gel Hydroxide Form	OH	1.0	NA*	16 to 50 (0.3 to 1.2)	41	Type I porous strong base anion resin with a pH indicator dye that changes from blue to clear as the resin exhausts. Intended for use in cartridges and other applications where a pH indicator is desired.
SBG1-OH	Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Premium grade type I strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin.
SBG1-OH-SC	Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Premium grade type I strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin. Tested to <50 ppb of TOC.
SBG1-OH-LTOC	Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Premium grade type I strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin. Tested to <10 ppb of TOC.
SBG1-OH-ULTRA	ULTRA Grade Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	ULTRA high grade Type I strong base anion resin in the hydroxide form intended for applications that require the highest possible purity. Tested to <2 ppb of TOC.
SBG1-OH-CP	Polisher Grade Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Condensate polisher grade type I strong base anion resin in the hydroxide form with carefully graded particle size. Intended for regenerable and non-regenerable polisher applications.
SBG1P-OH	Type 1 Porous Gel, Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	41	Industrial grade type I porous strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin.
SBG1P-OH-SC	Type 1 Porous Gel, Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	41	Industrial grade type I porous strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin. Tested to <50 ppb of TOC.
SBG1P-OH-LTOC	Type 1 Porous Gel, Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	41	Industrial grade type I porous strong base anion resin in the ready-to-use hydroxide form intended for all applications requiring a hydroxide form anion resin. Tested to <10 ppb of TOC.
SBG1P-OH-ULTRA	ULTRA Grade Type 1 Porous Strong Base Gel Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	41	ULTRA high grade Type I porous strong base anion resin in the hydroxide form intended for applications that require the highest possible purity. Tested to <2 ppb of TOC.
SBG2-OH	Type II Strong Base Gel Hydroxide Form	OH	1.15	NA*	16 to 50 (0.3 to 1.2)	42	Type II strong base anion resin in the hydroxide form intended for applications where a hydroxide form anion resin is needed and fishy odors would be objectionable. This product has limited shelf life.
SBACR-OH	Type 1 Strong Base, Acrylic Gel Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	42	Acrylic strong base anion resin in the ready to use hydroxide form. Intended for highly fouling applications. This product has limited thermal stability.
SBMP1-OH	Macroporous Type I Strong Base Hydroxide Form	OH	0.95	NA*	16 to 50 (0.3 to 1.2)	41	Type I macroporous strong base anion resin in the ready-to-use hydroxide form intended for regenerable and non-regenerable applications.

HYDROXIDE FORM STRONG BASE ANION RESINS (CONT.)

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SBMP1-OH-CP	Polisher Grade Macroporous Strong Base Hydroxide Form	OH	0.95	NA*	20 to 40 (0.42 to 0.84)	41	Condensate polisher grade type I macroporous strong base anion resin in the ready to use hydroxide form with carefully graded particle size. Intended for condensate polishing applications.

Note: Hydroxide form resins decompose at elevated temperatures and therefore the moisture content can not be reliably measured.

ResinTech Product Coding: Strong Base Anion Resins

Code	Description	Code	Description	Code	Description	Code	Form	Code	Grade
SB	Strong Base	G	Gel	1	Type 1	Blank	Chloride	F	Fine
		MP	Macroporous	1P	Type 1 Porous	OH	Hydroxide	C	Coarse
		ACR	Acrylic	2	Type II	HCO3	Bicarbonate	ID	Dyed

CP=Condensate Polisher • UPS=Uniform Particle Size • SC=Semiconductor • LTOC=Low TOC • ULTRA=Ultrapure

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FREE BASE FORM WEAK BASE ANION RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
WBMP	Weak Base Macroporous	Free Base	1.45	53 to 60	16 to 50 (0.3 to 1.2)	40	Industrial grade macroporous weak base anion resin intended for use in multiple bed demineralizers, resource recovery and waste treatment applications.
WBMP-HC	Weak Base Macroporous	Free Base	1.6	45 to 55	16 to 50 (0.3 to 1.2)	40	Industrial grade high capacity macroporous weak base anion resin intended for use in multiple bed demineralizers, resource recovery, and waste treatment applications.
WBMP-OH	Weak Base Anion Macroporous	OH/Free Base	1.3	53 to 60	16 to 50 (0.3 to 1.2)	40	Weak base macroporous anion resin regenerated prior to shipment to activate the strong base sites. Intended for applications where a ready-to-use weak base resin is desired.
WBACR	Acrylic Weak Base Gel	Free Base	1.4	56 to 64	16 to 50 (0.3 to 1.2)	45	Acrylic weak base anion resin with additional strong base capacity. Intended for use in demineralizers and other multicycle uses where low rinse requirement is important.
WBACR-HC	Acrylic Weak Base Gel	Free Base	2	55 to 63	16 to 50 (0.3 to 1.2)	45	Acrylic weak base anion resin with very high capacity and almost no strong base capacity. Intended for disposable cartridges and other single use applications.
WBG30	Epoxy Weak Base Granular Gel	Free Base	2.8	52 to 58	12 to 50 (0.3 to 1.68)	38	Granular epoxy polyamine weak base anion resin intended for disposable cartridges and other single cycle applications that require the highest possible operating capacity.

ResinTech Product Coding: Weak Base Anion Resins

Code	Description	Code	Description	Code	Description
WB	Weak Base	G30	Epoxy Gel	Blank	Free Base
		MP	Macroporous	OH	Hydroxide
		ACR	Acrylic	HC	High Capacity

CP=Condensate Polisher • UPS=Uniform Particle Size • SC=Semiconductor • LTOC=Low TOC • ULTRA=Ultrapure

NOTES

UNIFORM RESINS

UNIFORM PARTICLE SIZED RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
CG8-UPS*	Uniform Particle size Strong Acid Gel 8% Crosslinked	Na/H	2	42 to 49	16 to 50 (0.3 to 1.2)	52	Uniform particle size industrial grade strong acid cation resin intended for packed beds and other applications where low pressure loss is important. WQA Gold Seal certified to ANSI/NSF 61.
CG8-BL-UPS	Strong Acid Gel 8% Crosslinked	Na/H	2	42 to 49	20 to 40 (0.42 to 0.84)	52	Uniform particle size dark colored industrial grade strong acid cation resin intended for packed beds and other applications where low pressure loss is important.
CG10-UPS	Uniform Particle Size Strong Acid Gel 10% Crosslinked	Na	2.2	39 to 45	20 to 40 (0.42 to 0.84)	54	Uniform particle size premium grade strong acid cation resin intended for packed beds and other applications where low pressure loss and superior resistance to physical and chemical stress are important.
SBG1P-UPS	Uniform Particle Size Strong Base Gel Type 1 Porous	Cl	1.25	50 to 60	20 to 40 (0.42 to 0.84)	42	Uniform particle size industrial grade type I porous strong base anion resin intended for packed beds, mixed beds, and applications where low pressure loss is important.
SBG1-UPS	Uniform Particle Size Strong Base Gel Type 1	Cl	1.4	42 to 50	20 to 40 (0.42 to 0.84)	44	Uniform particle size industrial grade type I strong base anion resin intended for packed beds, mixed beds, and applications where low pressure loss is important.
SBG2-UPS	Uniform Particle Size Strong Base Anion Gel Type 1 Porous	Cl	1.3	40 to 53	20 to 40 (0.42 to 0.84)	42	Uniform particle size industrial grade type II strong base anion resin intended for packed beds, mixed beds, and applications where low pressure loss is important.
SBMP1-UPS	Uniform Particle Size Strong Base Type 1 Macropo- rous	Cl	1.2	56 to 60	20 to 40 (0.42 to 0.84)	42	Uniform particle size macroporous type I strong base anion resin intended for packed beds, mixed beds, and applications where low pressure loss is important.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

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MIXED BED RESINS

HYDROGEN/HYDROXIDE MIXED BED RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
MAG-MB	Hydrogen Form Amber Cation and Hydroxide Form Type 1 Anion	H/OH	0.45	50%	16 to 50 (0.3 to 1.2)	43	Mixture of light colored hydrogen form cation and hydroxide form strong base anion resin intended for EDM and other demineralizer applications where a light colored mixed bed is desired.
MBD-10	Hydrogen Form Dark Cation and Hydroxide Form Type I Anion	H/OH	0.6	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1-OH intended for all applications that require a mixed bed resin with higher operating capacity and excellent rinse up to high resistivity.
MBD-10-SC	Hydrogen Form Dark Cation and Hydroxide Form Type I Anion	H/OH	0.6	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <50 ppb of TOC.
MBD-10-LTOC	Hydrogen Form Dark Cation and Hydroxide Form Type I Anion	H/OH	0.6	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <10 ppb of TOC.
MBD-10-ULTRA	Hydrogen Form Dark Cation and Hydroxide Form Type I Anion	H/OH	0.6	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <1 ppb of TOC.
MBD-15	Hydrogen Form Dark Cation and Hydroxide Form Type 1 Anion	H/OH	0.55	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1P-OH intended for all applications that require a mixed bed resin with high operating capacity and excellent rinse up to high resistivity.
MBD-15-SC	Hydrogen Form Dark Cation and Hydroxide Form Type 1 Anion	H/OH	0.55	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1P-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <50 ppb of TOC.
MBD-15-LTOC	Hydrogen Form Dark Cation and Hydroxide Form Type 1 Anion	H/OH	0.55	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1P-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <10 ppb of TOC.
MBD-15-ULTRA	Hydrogen Form Dark Cation and Hydroxide Form Type 1 Anion	H/OH	0.55	40%	16 to 50 (0.3 to 1.2)	43	Mixture of CG8-H-BL and SBG1P-OH intended for all applications that require a mixed bed resin that rinses to high resistivity and low TOC. Tested to 18+ megohms and <1 ppb of TOC.
MBD-20	Hydrogen Form Dark Cation and Hydroxide Form Type 2 Anion	H/OH	0.6	42%	16 to 50 (0.3 to 1.2)	44	Mixture of CG8-H-BL and SBG2-OH intended for all applications that require a mixed bed resin where fishy odors would be objectionable. This product has limited shelf life.
MBD-25-MP	Hydrogen Form Dark Cation and Hydroxide Form Type 1 Anion	H/OH	0.6	30%	16 to 50 (0.3 to 1.2)	42	Special purpose anion rich mixture of highly regenerated hydrogen form macroporous cation resin and highly regenerated hydroxide form type I macroporous strong base anion resin.
MBD-30	Hydrogen Form Amber Cation and Hydroxide Form Dyed Anion	H/OH	0.43	50%	16 to 50 (0.3 to 1.2)	43	Mixture of light hydrogen form cation and dyed hydroxide form anion that changes from blue to colorless as the resin exhausts. Intended for applications where a color change mixed bed is desired.
MBD-35	Hydrogen Form Amber Cation and Hydroxide Form Type 1 Anion	H/OH	0.55	40%	16 to 50 (0.3 to 1.2)	43	Mixture of dyed hydrogen form cation and hydroxide form anion changes from purple to yellow as the resin exhausts. Intended for applications where a color change mixed bed is desired.

MISC. MIXED BED RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
MBD-80	Cartridge Grade Weak Acid Cation mixed w/ Acid Washed Carbon	H/Na	NA	80% WAC	12 to 50 (0.3 to 1.68)	46	Specially prepared mixture of acid washed granular activated carbon and specially buffered high purity grade weak acid cation resin. Intended for lead removal from potable water.
MBD-90	Macroporous Acrylic Anion mixed w/ Acid Washed Carbon	Na/Cl	NA	75% AGC	12 to 50 (0.3 to 1.68)	35	Specially prepared mixture of organic removal anion resin and acid washed carbon intended for organics removal in disposable cartridges.
MBD-100	Dyed Hydrogen Form Cation mixed w/ Weak Base Anion Resin	H/FB	0.7	40%	16 to 50 (0.3 to 1.2)	45	Special high throughput mixed bed made with color changing cation resin and weak base anion resin intended for disposable cartridges.

ResinTech Product Coding: H/OH Mixed Bed Resins

Code	Description	Code	Cation	Anion
MB	Mixed Bed	10	CG8-H-BL	SBG1-OH
		15	CG8-H-BL	SBG1P-OH
		20	CG8-H-BL	SBG2-OH
		25 MP	SACMP-H	SBMP1-OH
		30	CG8-H	SBG1P-OH-ID
		35	CG8-H-ID	SBG1P-OH
		MAG	CGS-H-BL	SBG1P-OH

CP=Condensate Polisher • UPS=Uniform Particle Size • SC=Semiconductor • LTOC=Low TOC • ULTRA=Ultrapure

NOTES

SELECTIVE RESINS

SELECTIVE ION EXCHANGER RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SIR-22P-HP	Type I Very Porous Strong Base Anion Gel	Cl	0.65	70 to 80	16 to 50 (0.3 to 1.2)	41	Special very highly porous type I strong base anion resin intended for removal of naturally occurring organics from potable water. WQA Gold Seal certified to ANSI/NSF 61 when ordered as SIR-22P-HP.
SIR-100-HP	Nitrate Selective Strong Base Anion Macroporous	Cl	1.0	46 to 65	16 to 50 (0.3 to 1.2)	42	Special macroporous strong base anion resin intended for removal of nitrate from potable water. WQA Gold Seal certified to ANSI/NSF 61.
SIR-110-HP*	Perchlorate Selective Strong Base Anion Gel	Cl	0.8	38 to 50	16 to 50 (0.3 to 1.2)	42	Special strong base anion resin intended for removal of perchlorate from potable water. WQA Gold Seal certified to ANSI/NSF 61.
SIR-150	Boron Selective Weak Base Anion Macroporous	FB	0.8	46 to 60	16 to 50 (0.3 to 1.2)	42	Special chelating weak base anion resin intended for boron removal from water.
SIR-200	Mercury Selective Weak Acid Cation Macroporous	H	NA	38 to 48	16 to 50 (0.3 to 1.2)	45	Special chelating weak acid cation resin intended for mercury removal from water.
SIR-300	Heavy Metal Selective Chelating Weak Acid Cation Macroporous	Na	1.4	50 to 60	16 to 50 (0.3 to 1.2)	43	Special chelating weak acid cation in the sodium form intended for removal of various heavy metals from waste streams.
SIR-300-pH adj.	Heavy Metal Selective Chelating Weak Acid Cation Macroporous	Na	1.4	50 to 60	16 to 50 (0.3 to 1.2)	43	Special chelating weak acid cation in the sodium form intended for removal of various heavy metals from waste streams.
SIR-350	Heavy Metal Selective Chelating Weak Acid Cation Macroporous	Na	2.0	50 to 55	16 to 50 (0.3 to 1.2)	44	Special chelating weak acid cation in the sodium form intended for removal of various heavy metals from waste streams.
SIR-400	Mercury Selective Weak Base Anion Macroporous	Free Base	2.0	35 to 50	16 to 50 (0.3 to 1.2)	44	Special chelating weak base anion resin intended for mercury removal from water.
SIR-500	Brine Softening Chelating Weak Acid Cation Macroporous	Na	1.7	50 to 70	16 to 50 (0.3 to 1.2)	42	Special chelating weak acid cation in the sodium form intended for removal of trace hardness from saturated brine and removal of various heavy metals from waste streams.
SIR-600	Natural Zeolite Cation Exchanger Granular	Na/K	0.6	0 to 10	16 to 50 (0.3 to 1.2)	64	Specially processed natural zeolite intended for removal of ammonia from potable water and removal of cesium from various radwastes.
SIR-700*	Chromate Selective Weak Base Anion Granular	HCl	2.1	52 to 58 (FB form)	12 to 50 (0.3 to 1.68)	40	Special granular weak base anion resin in the acid chloride form intended for chromate removal from potable water. WQA Gold Seal certified to ANSI/NSF 61.
SIR-800	Oxygen Selective Strong Base Anion Gel	SO ₃	0.9	NA	16 to 50 (0.3 to 1.2)	42	Special neutral pH sulfite form strong base anion resin intended for oxygen removal and other redox applications.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

SELECTIVE RESINS (CONT.)

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
SIR-900	Fluoride Selective Crystalline Aluminum Oxide Granular	None	NA	0 to 10	16 to 50 (0.3 to 1.2)	38	Special aluminum oxide adsorbent intended for fluoride removal from potable water.
SIR-950	Fluoride Selective Bone Char Carbon	None	NA	NA	12 to 50 (0.3 to 1.68)	35 to 45	Special bone char carbon adsorbent for fluoride removal and for removal of heavy metals such as lead, mercury, cadmium etc.
SIR-1000	Heavy Metal Selective Chelating WeakBase Anion Macroporous	HSO ₄	0.8	40 to 60	16 to 50 (0.3 to 1.2)	42	Special weakly basic chelating resin in the acid sulfate form intended for use removing copper and other impurities from chromic acid baths and for solution mining applications.
SIR-1200	Uranium Selective Type I Strong Base Anion Gel	Cl	1.5	43 to 50	16 to 50 (0.3 to 1.2)	44	Special strong base anion resin Intended for use in groundwater cleanup, chemical processing and solution mining applications.
SIR-2000	Amphoteric (strong base/weak acid) Functional Gel	Na/OH	1.8	35 to 45	40 to 100 (0.15 to .42)	46	Special dual functional amphoteric resin with both strongly basic and weakly acidic ion exchange capacity, intended for use in acid retardation, ion retardation and other chromatographic separations

INERT RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
IT-1	Inert Barrier Beads for Three Component Mixed Beds	Inert	None	0 to 15	20 to 40 (0.4 to 0.9)	42	Inert beads intended for use as a separating layer between the cation and anion components in three component mixed beds.
IT-5	Inert Floating Barrier for Packed Beds	Inert	None	0 to 5	8 to 12 (1.4 to 2.6)	33	Specially sized inert granular media intended for use as a top layer in packed bed ion exchangers.

HYBRID RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
ASM-10-HP*	Arsenic Selective Iron Impregnated Strong Base Anion Gel	Cl	1.4	35 to 50	16 to 50 (0.3 to 1.2)	49	Special hydrated iron oxide infused hybrid strong base anion resin in the chloride form intended for arsenic removal from potable water. WQA Gold Seal certified to ANSI/NSF 61.
ASM-125	Antimony Selective Strong Base Anion Gel	Cl	1.4	35 to 50	16 to 50 (0.3 to 1.2)	49	Special hydrated iron oxide infused hybrid type I strong base anion resin in the chloride form intended for removal of antimony and other activated corrosion products as well as silica.
ASM-125-OH	Antimony Selective Strong Base Anion Gel	OH	1.1	40 to 55	16 to 50 (0.3 to 1.2)	48	Special hydrated iron oxide infused hybrid type I strong base anion resin in the hydroxide form intended for removal of antimony as well as silica. This product has limited shelf life.
BSM-50	Antimony Selective Strong Base Anion Gel	BO ₃	1.4	35 to 50	16 to 50 (0.3 to 1.2)	49	Special hydrated iron oxide infused hybrid type I strong base anion resin in the borate form intended for removal of antimony and other activated corrosion products as well as silica.
RSM-25*	Radium Selective Highly Crosslinked Cation Macroporous	Na	1.8	45 to 55	16 to 50 (0.3 to 1.2)	50	Non-hybrid highly crosslinked macroporous strong acid cation resin in the sodium form intended for radium removal from potable water. WQA Gold Seal certified to ANSI/NSF 61.
RSM-50	Radium Selective Strong Acid Cation Macroporous	Na	1.8	30 to 45	16 to 50 (0.3 to 1.2)	60	Barium sulfate infused hybrid strong acid cation resin in the sodium form intended for removal of radium from potable water. WQA Gold Seal certified to ANSI/NSF 61.



*WQA Gold Seal certified to ANSI/NSF 61 when ordered as specified.

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NUCLEAR GRADE RESINS

POWERMAX RESINS

ResinTech® Product Name	Type	Ionic Form	Total Vol. Capacity (meq/mL)	Water Retention (percent)	Size Range, Mesh (mm)	Shipping Weight (lbs/cu.ft)	Remarks
NRX850	Strong Acid Gel 8% crosslinked	H	1.8	47 to 56	16 to 50 (0.3 to 1.2)	50	Industrial grade strong acid cation resin in the hydrogen form; intended for all applications that require a hydrogen form cation resin.
NRX1500	Strong Acid Gel 10% crosslinked	H	2.0	44 to 52	16 to 50 (0.3 to 1.2)	51	Premium grade strong acid cation resin in the hydrogen form intended for applications that require higher resistance to oxidation and physical stresses.
NRX2500	Strong Acid Gel 10% crosslinked	H	2.0	44 to 52	16 to 50 (0.3 to 1.2)	51	Premium grade strong acid cation resin in the hydrogen form intended for applications that require higher resistance to oxidation and physical stresses.
PX1500	Strong Acid Gel 10% crosslinked	H	2.15	44 to 52	20 to 40 (0.4 to 0.8)	51	Condensate polisher grade macroporous strong acid cation resin in the hydrogen form. Optimal size range for low pressure loss and good separation when combined with "CP" grade anion components.
PX2000	Uniform Particle Size Strong Acid Macroporous	Na	1.8	45 to 55	20 to 40 (0.42 to 0.84)	50	Condensate polisher grade macroporous strong acid cation resin intended for high flow rate applications that require the highest possible resistance to oxidation, temperature, and osmotic stresses.
PX2500	Strong Acid Macroporous	H	1.7	45 to 55	20 to 40 (0.4 to 0.8)	48	Condensate polisher grade macroporous strong acid cation resin in the hydrogen form. Optimal size range for low pressure loss and good separation when combined with "CP" grade anion components.
NRC4500	Type 1 Porous Gel, Hydroxide Form	OH	1.05	NA*	16 to 50 (0.3 to 1.2)	41	Industrial grade type I porous strong base anion resin in the hydroxide form intended for all applications requiring a hydroxide form anion resin.
NRX5500	Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Premium grade type I strong base anion resin in the hydroxide form intended for all applications requiring a hydroxide form anion resin.
NRX6500	Macroporous Type I Strong Base Hydroxide Form	OH	0.95	NA*	16 to 50 (0.3 to 1.2)	41	Type I macroporous strong base anion resin in the hydroxide form intended for regenerable and non-regenerable applications.
PX5500	Polisher Grade Type 1 Strong Base Gel Hydroxide Form	OH	1.2	NA*	16 to 50 (0.3 to 1.2)	41	Condensate polisher grade type I strong base anion resin in the hydroxide form with carefully graded particle size. Intended for regenerable and non-regenerable polisher applications.
PX6500	Polisher Grade Macroporous Strong Base Hydroxide Form	OH	0.95	NA*	20 to 40 (0.42 to 0.84)	41	Condensate polisher grade type I macroporous strong base anion resin in the ready to use hydroxide form with carefully graded particle size. Intended for condensate polishing applications.
NRX9000	Natural Zeolite Cation Exchanger Granular	Na/K	0.6	0 to 10	16 to 50 (0.3 to 1.2)	64	Specially processed natural zeolite intended for removal of cesium from various radwaste streams.



RESINTECH[®] INC.

INNOVATIONS IN ION EXCHANGE

ResinTech is a global leader in the field of ion exchange technology. Our premium quality media, legendary technical support, and patented technologies help dealers, and operators worldwide ensure optimal water quality for softening, demineralizing, conditioning, condensate polishing and radwaste treatment applications. ResinTech's world-class laboratory offers our customers valuable insights into the composition of their feed and process water and the health of the media in their ion exchange vessels.

Together with its corporate subsidiaries, ACM Technologies, and Aries FilterWorks, the ResinTech family of companies provide products and services to support all phases of the IX resin life cycle from media formulation to ion-exchange application to resin regeneration.

ResinTech is headquartered in West Berlin, NJ and maintains facilities in Forest Hill, MD, Sarasota, FL, Houston, TX, and Gardenia, CA.

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