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	MATRIX STRUCTURE	FUNCTIONAL GROUP	IONIC FORM SUPPLIED	WET DENSITY G/ML	EFFECTIVE SIZE mm	USEFUL pH RANGE	MAXIMUM OPERATING TEMP °C	PHYSICAL SHAPE	CAPACITY		REGENERANT CHEMICALS		REMARKS
									TOTAL meq./ml	NOMINAL VALUES OBTAINED UNDER FIELD CONDITIONS** grams CaCO3/l.	TYPE	DOSAGE grams/l	
CA-10	Styrene Divinylbenzene strong acid cation resin	Sulfonic Acid	Na	0.78-0.88	0.420-1.19	0-14	120°C	Light Brown spherical beads	2	41-68 44-78 25-78	NaCl: 8-10 % HCl: 4-5 %	80-240 64-144 64-160	Good Physical Stability, highest capacity
C-100	Gel polystyrene crosslinked with divinylbenzene	Sulfonic Acid	Na	0.78-0.88	0.60-0.85	0-14	120°C	Spherical beads	2	41-68 44-78 25-78	NaCl: 8-10 % HCl: 4-5 %	80-240 64-144 64-160	Good Physical Stability, highest capacity
A-400	Polystyrene cross-linked with Divinylbenzene	Type I Quaternary Ammonium	Cl	1.12	1.2-0.3	0-13	100°C	Clear golden spherical beads	1.3	27-55 7-27	NaOH NaCl	64-160 48-128	High operating capacity and the ability to achieve low residual silica levels
A-300 & A-300E	Polystyrene cross-linked Divinylbenzene	R(CH3)2(C2H4OH)N	Cl	1.12	1.2-0.3	No Limitations	170°C	Clear spherical beads	1.45-1.6	41-68 44-78 25-78	NaOH	80-240 64-144 64-160	Removes all ions including silica and CO2
T-42	Cross-linked Polystyrene	Sulfonic Acid	Hydrogen / Sodium	0.30-0.85	0.3-1.2	0-14	120°C	Moist spherical beads	2.0-1.8	41-68 44-78 25-78	NaCl for Na HCl or H2SO4 for H	30-160 40-250 60-160	Good Physical Stability, highest capacity
NRW-37 (Cation Portion)		R-SO3H	H+	0.74	1.2-0.4	0-14	100°C	Amber spherical beads	1.8	29			Used in Ultra-pure water radiateion waste and condensate polishing
NRW-37 (Anion Portion)		R4NOH	OH-	0.74	1.2-0.4	0-14	100°C	Amber spherical beads	1	29			
S108	Macroporous crosslinked polymer	Complex Amino	Free Base	1.1	0.52-0.67	13-Jan	60°C	Spherical beads	0.8		Mineral Acids		Removal of salts of boron from aqueous solutions