REV 0521

Resin Capacity Comparisons

RESINTECH PRODUCT	SODIUM FORM	MINIMUM SPEC.	TYPICAL NEW	GROUNDS FOR REPLACEMENT
Strong Acid Cation Resins *meq/mL Salt Splitting Capacity**				
CG8	8% Gel	1.95	2.05+	1.6 (25 - 50% loss)
CG10	10% Gel	2.2	2.25+	1.7 (25 - 50% loss)
	12% Macropore	1.7	1.8+	Physical deterioration
	20% Macropore	1.7	1.7+	Physical deterioration

NOTE: Total capacities are not usually performed for strong cation resins but should be the same.

RESINTECH PRODUCT	HYDROGEN FORM	MINIMUM SPEC.	TYPICAL NEW	GROUNDS FOR REPLACEMENT
Weak Acid Cation *meq/mL Total Volume Capacity*				
WACG	Gel	4.3+	4.4+	Physical deterioration
WACMP	Macropore	3.6	4.0	Physical deterioration
WACMA	Methacrylic	3.6	3.9	Physical deterioration

NOTE: Salt splitting capacities are not usually performed for a weak cation resin, but should be less than l0% of the total capacity. Sodium form capacities are 1/2 to 2/3 of hydrogen form capacities due to the volume change.

RESINTECH PRODUCT	CHLORIDE FORM	MINIMUM SPEC.	TYPICAL NEW	TYPICAL AFTER CYCLING
Strong Base Anion Resins *meq/mL Total Volume Capacity*				
SBG1P	Porous Gel Type I	1.25	1.3+	1.15
SBG1	Gel Type I	1.45	1.5+	1.3
SBG2	Gel Type II	1.45	1.5+	1.3
SBMP1	Macroporous Type I	1.15	1.15 - 1.2	1.1
SBACR1	Acrylic Gel	1.2	1.25 - 1.3	1.1

NOTE: New strong anion base resins should have salt splitting capacities that are the same as their total capacities.

RESINTECH PRODUCT	FREE BASE FORM	MINIMUM SPEC.	TYPICAL NEW	TYPICAL AFTER CYCLING
Weak Base Anion Resins *meq/mL Total Volume Capacity*				
WBG-30	Epoxy Polyamine	2.6	2.6 - 3.0	2.4 - 3.0
WBACR	Gel Tertiary Acrylic	1.6	1.6 - 1.7	1.5 - 1.6
WBMP	Macro Tertiary Styrene	1.6	1.7	1.6 - 1.7

NOTE: New weak base anion resins with styrenic or epoxy matrix generally have salt splitting capacities equal to 5-10% of their total capacities.

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INNOVATIONS IN ION EXCHANGE

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