

## Resin (Alamo, Purolite, Thermax)

### Alamo Brand A4000 Resin

Alamo brand A4000 resin is a high purity, premium grade, prewashed, strong acid gel-type cation exchange resin specially designed for water softening applications. A4000 is a bead type, cross-linked, polystyrene divinylbenzene resin that offers excellent bead integrity and very low extractables.



Gold Seal Certified  
NSF / ANSI Std. 44  
(A4000)

### Resin Properties

Type	8% crosslink polystyrene
Form	Gel- type, light amber bead
Ionic form	Na+ (as shipped)
Functional group	Sulphonic acid
Bead size	16 x40 mesh
Effective size	0.45 ± 0.07 mm
Bulk density	53 lb/ft <sup>3</sup>
Real density	1.28 g/cm <sup>3</sup>
Bead count	>95%
Water retention	45-48%
Total capacity	>2.0meq/l
Volume change	Na+ - H+ <5%
Stability, temp.	<300°F
Stability pH	0 – 14

### Design Conditions

Bed depth	>30 in
Flow rate	2-5 gpm/ft <sup>3</sup>
Freeboard	50% of bed depth
Backwash expansion	50% of bed depth
NaCl concentration for regeneration	5-25%
NaCl flow rate for regeneration	0.25-0.5 gpm/ft <sup>3</sup>
Turbidity	<5.0 NTU
Free chlorine	<1 ppm

### Ordering Information

#### Cation

MODEL NO.	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4000	Alamo Brand 8% crosslink	Softening	NA	1	52	40
A9009	Thermax T-42 8% crosslink	Softening	NA	1	52	40
A4005	Purolite C-100FM fine mesh	Softening	NA	1	52	40
A4004	Purolite C-100E	Softening	NA	1	52	40
A4016	Purolite C-100X10 10% crosslink	Softening	NA	1	52	40
A9000-14	Thermax T-52 10% crosslink	Softening	NA	1	52	40
A9000-25	Thermax T-42MP 8% macro	Condensate	NA	1	52	40
A4012	Purolite C-100H	DI	H+	1	52	40

#### Anion

MODEL NO.	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4044	Purolite A-300 Type II	Alkalinity	CL	1	43	40
A4040	Purolite A-400 Type I	DI	CL	1	43	40
A4073	Purolite A-850 gel acrylic	Tannins	CL	1	43	40
A9000-35	Thermax A-72MP Type I styrene base	Tannins	CL	1	43	36
A9000-37	Thermax A-30MP Type I acrylic macro	Tannins	CL	1	43	36
A9000-36	Thermax A-62MP macro	Nitrates	CL	1	43	36
A4050	Purolite A-520E macro	Nitrates	CL	1	43	40

#### Mixed Bed

MODEL NO.	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4140	Purolite NRW-37SC Semiconductor 1:1 chem equiv	DI	H+/OH-	1	43	40
A9000-31	Thermax MB-108P 1:1 volume basis	DI	H+/OH-	1	43	36