TULSION®

T-240

FINE MESH CATION RESIN, NA^+ FORM

Tulsion®T-240 is a premium grade fine mesh gel cation exchange resin used in home water softening application. Tulsion®T-240 possesses high capacity, excellent stability and operating characterstics. By virtue of its small particle size the resin has a greater surface area. As a result it offers shorter diffusion paths and thus better kinetics and operating capacities than conventional standard particle size resin. Tulsion®T-240 requires lower backwash flow rate to expand the bed in comparison to standard particle size resin.

Tulsion®T-240 is also used to remove high levels of clear water iron and in some instances as a filter to remove small particulates like rust particles (ferric iron) which may filter through standard mesh resin.

Tulsion®T-240 offers some clear advantages in residential water softening systems where pressure differential is less critical.

- Better iron removal
- Less consumption of salt for regeneration.
- Better hardness leakage characterstics.

TYPICAL CHARACTERSTICS

Type	:	Strong acid cation exchange resin
Matrix Structure	:	Cross Linked polystyrene/ divinylbenzene
Functional group	:	$R\text{-}SO_3Na^+$
Physical form	:	Moist spherical beads
Ionic form	:	Na^+
Particle Size	:	-30 + 70 (U.S.S Mesh), 90% in range
Total Exchange capacity	:	2.0 meq/ml in Na^+ form
Moisture content(approx.)	:	45% in Na^+ form
Swelling(approx.)	:	Na^+ to H^+ 7%
pH range	:	0-14
Solubility	:	Insoluble in all common solvents
Shipping weight	:	Approx. 52 lbs/ft^3

TYPICAL OPERATING CONDITIONS

Maximum Operating Temp.	:	280°F (140°C)
Resin bed Depth	:	20"(500 mm)
Standard Service Flow rate	:	2-5 gpm/ft^3 (16-40 M^3/Hr/M^3)
Regenerant	:	NaCl
Regeneration level	:	2-15 lbs/ft^3
Regenerant concentration	:	5-15%
Regeneration time	:	20-60 minutes
Regenerant Flow rate	:	0.25-0.50 gpm/ft^3
Influent Limitations		
Free Chlorine	:	Not traceable
Turbidity	:	Less than 2 N.T.U
Iron and Heavy metals	:	Less than 0.1 ppm

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