

TULSION®



A-32

'CRACK FREE' STRONG BASE ANION EXCHANGE RESIN TYPE II

Tulsion®A-32 'crack free' , is a highly efficient and durable strong base, Type-II anion exchange resin based on polystyrene matrix. Tulsion A-32 shows excellent physical characteristics along with high operating capacity and excellent regeneration efficiency for removal of strong as well as weak acids.

Tulsion®A-32 has slightly lower basicity than type-I resin and as such silica leakage is marginally higher when used in two bed systems alongwith strong acid cation exchange resin Tulsion T-42 in hydrogen form.

Tulsion A-32 is supplied in chloride form and must be regenerated with a good grade sodium hydroxide solution before use.

TYPICAL CHARACTERSTICS

Type	:	Strong base anion Exchange resin
Matrix Structure	:	Cross Linked polystyrene
Functional group	:	Quaternary Ammonium, Type-II
Physical form	:	Moist spherical beads
Ionic form	:	Chloride
Particle Size	:	0.3-1.2mm
Screen Size U.S.S	:	16 to 50
Total Exchange capacity	:	1.30 meq/ml
Operating pH range	:	0-14
Moisture content	:	40-47%
Reversible swelling (approx.)	:	Cl ⁻ to OH ⁻ 12%
Backwash settled density	:	43 to 45 lbs/ft ³ (680-720 g/l)
Solubility	:	Insoluble in all common solvents

TYPICAL OPERATING CONDITIONS

Maximum Operating Temp.	:	140°F (60°C)
Resin bed Depth	:	24"(600 mm)
Maximum Service Flow	:	7.5 gpm/ft ³ (60 M ³ /Hr/M ³)
Backwash Expansion space	:	50-70%
Backwash Expansion Flow Rate at 77°F(25°C)	:	2.0 to 4.0 gpm/ft ² (5 to 10 M ³ /Hr/M ²)
Regenerant	:	NaOH
Regeneration level	:	2.5 to 10 lbs NaOH/ft ³ (40 to 160 gNaOH/l)
Regenerant concentration	:	4 to 8% NaOH
Regeneration time	:	30-60 minutes
Rinse flow rate: Slow	:	At regeneration flow rate
Fast	:	At service flow rate.
Rinse Volume	:	30 to 75 gal/ft ³ (4 to 10 M ³ /M 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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THERMAX
CHEMICAL DIVISION
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