

Tulsimer® T-46 Li

产品详情

Tulsimer® T-46 Li STRONG ACID CATION EXCHANGE RESIN NUCLEAR GRADE

Tulsimer® T-46 Li is a specially developed premium grade strongly acidic cation exchange resin containing nuclear sulphonic acid groups with excellent physical and chemical stability for use in the nuclear industry.

Tulsimer® T-46 Li is primarily used for purification of reactor coolant water and moderator in nuclear power station plants to keep corrosion products to the minimum and thus protect the heat transfer surfaces from scaling and corrosion.

Tulsimer® T-46 Li is supplied in hydrogen, lithium and ammonium forms to facilitate control of the pH of coolant water at a value that would result in practically negligible attack on metal surface by the coolant water.

Tulsimer® T-46 Li is manufactured under the most stringent quality controls to ensure minimal metallic impurities resulting in the highest purity of the ionic form supplied.

TYPICAL CHARACTERISTICS: Tulsimer® T-46 Li

Matrix structure	Polystyrene copolymer
Functional group	Nuclear Sulphonic
Physical form	Moist spherical beads
Ionic form	Hydrogen/Lithium
Screen size US mesh	16 to 50
Particle size (min. 95%)	0.3 to 1.2mm
Moisture content	52± 3% H form. 50± 3% Li form
Backwash settled density	800 to 840 g/l (50 - 52 lbs/cft) (H+)
Thermal stability	250 °F / 120 °C
pH range	0 to 14
Fines content	Less than 0.5% through 50 USS
Bead strength	Not less than 500 g/bead
Solubility	Insoluble in all common solvents
Total exchange capacity	1.8 meq/ml for H+ (min. 99% of its exchange sites in the form supplied)

操作条件 (OPERATION CONDITIONS) : Tulsimer® T-46 Li

最小树脂床高度(Bed depth , mini mm)	600
最大(Service flow rate ,Maxi)	120 m ³ /hr/ m ³
逆洗水量(Backwash flow rate)	9 to 25 m ³ /hr/ m ³
逆洗浮动空间(Back wash expansion)	40 to 75%
再生药剂(Regenerant)	HCl, H ₂ SO ₄ for H+ form,
再生药剂用量(Regeneration levels.)	30 to 120 gms HCl/ lit. 40 to 250 gms H ₂ SO ₄ / lit.

再生药剂浓度(Regeneration concentration)	3 - 5% HCl, 1.5 to 3% H2SO4
最少通再生药剂时间(Regeneration Contact time, mini)	20 min
再生流量(Regeneration flow rate)	5 to 16 m3/hr/ m3
Regeneration slow rinse	2 BV mini.
快洗用水(Fast Rinse)	Service flow rate.
快洗水量(Fast Rinse Volume)	4 to 6 BV

TESTING:

The sampling and testing of ion exchange resins is done as per standard testing procedures, namely ASTM D-2187 and IS-7330, 1998.

PACKING:

Super sacks	1000 liters	Super sacks	35 cft
MS drums	180 liters	Fiber drums	7 cft
HDPE lined bags	25 liters	HDPE lined bags	1 cft

For Handling, Safety and Storage requirements please refer to the individual Material Safety Data Sheets available at our offices. The data included herein are based on test information obtained by Thermax Limited. These data are believed to be reliable, but do not imply any warranty or performance guarantee. Tolerances for characteristics are as per BIS/ASTM. We recommend that the user should determine the performance of the product by testing on own processing equipment.

如需了解更多产品技术相关问题，可咨询公司技术顾问，欢迎技术交流！