

Lanlang® TA201D

Macroporous type I strong base anion exchange resin
Used for water demineralization, organics removal.



PRODUCT DESCRIPTION

Lanlang® TA201D is a premium grade macroporous type I strong base anion exchange resin with polystyrene matrix and quaternary amine (Trimethylamine) function group in standard Gaussian size distribution. Its macroporous structure makes it can adsorb soluble organic molecules and can resist to osmotic & mechanical shock and oxidation. TA201D in chloride form could remove both strong and weak acid radicals such as sulfate, nitrate, arsenate, chromate and silicate to extreme low concentration level. Combining with strong acid cation exchange resin (in hydrogen form), TA201D in hydroxide form can be used in all types of demineralization system especially be suited for high flow rate and high temperature polishing.

BASIC FEATURES

Application:	Water demineralization (deionization), organics removal.
Polymer matrix structure:	Macroporous polystyrene crosslinked with divinylbenzene (DVB)
Appearance:	White & pale yellow opaque, spherical beads
Functional Group:	Quaternary amine, type I (Trimethylamine)
Ionic form as shipped:	Cl ⁻ or OH ⁻ when ordered as TA201D-OH

SUGGESTED OPERATING CONDITIONS

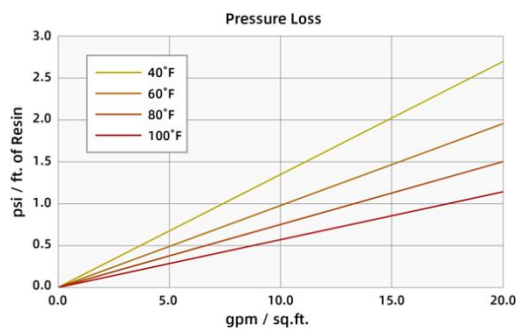
NO.	ITEM	SPEC
1	Max operating temperature	60°C
2	PH range	0-14
3	Service flow rate	8-40 BV/h
4	Regenerant	2-10% NaCl, 2-6% NaOH



PHYSICAL AND CHEMICAL PROPERTIES

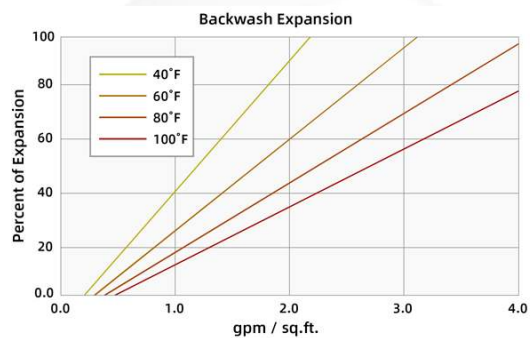
NO.	ITEM	SPEC	
1	Total exchange capacity (eq/L)	Cl- form	≥1.2
		OH- form	≥1.0
2	Moisture retention (%)	Cl- form	50-60
		OH- form	55-65
3	Particle size range (%)	0.315-1.25mm≥95	
4	Whole uncracked beads after attrition (%)	≥96	
5	Bulk density(g/ml)	Cl- form	0.65-0.73
		OH- form	0.63-0.70
6	Specific gravity (g/ml)	Cl- form	1.06-1.10
		OH- form	1.05-1.08
7	Effective size (mm)	0.4 - 0.6	
8	Homogenous coefficient	<1.7	
9	Reversible swelling, Cl- → OH- (%)	<20	
10	Free moisture (%)	<2	

HYDRAULIC PROPERTIES



PRESSURE LOSS

The graph above shows the expected pressure loss of Lanlang TA201D per foot of bed depth as a function of flow rate at various temperatures.



BACKWASH

The graph above shows the expansion characteristics of Lanlang TA201D as a function of flow rate at various temperatures.

