Lanlang® TA301D

Macroporous weak base anion exchange resin

Used for water demineralization, strong acids removal.

PRODUCT DESCRIPTION

Lanlang ® TA301D Is a premium grade macroporous weak base anion exchange resin with polystyrene matrix and tertiary amine (Dimethylamine) 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. The weak base functionality makes TA301D could be regenerated easily even using waste caustic left from regeneration of strong base anion resin. So TA301D could be used multi bed demineralizers to prolong the lifetime of strong based anion resin and prevent it from organic fouling.

BASIC FEATURES

Application:	Water demineralization (deionization), strong acids removal.
Polymer matrix structure:	Macroporous polystyrene crosslinked with divinylbenzene (DVB)
Appearance:	Beige opaque, spherical beads
Functional Group:	Tertiary amine (Dimethylamine)
Ionic form as shipped:	Free base

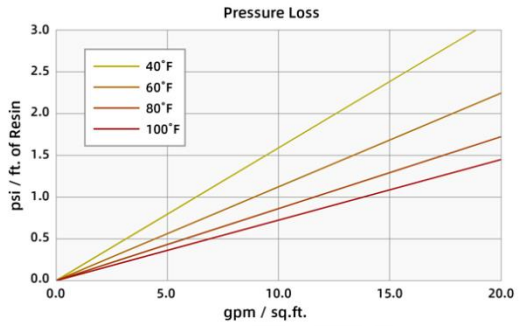
SUGGESTED OPERATING CONDITIONS

NO.	ITEM	SPEC
1	Max operating temperature	60 ℃
2	PH range	0-9
3	Service flow rate	5-40 BV/h
4	Regenerant	NaOH:2-4%

PHYSICAL AND CHEMICAL PROPERTIES

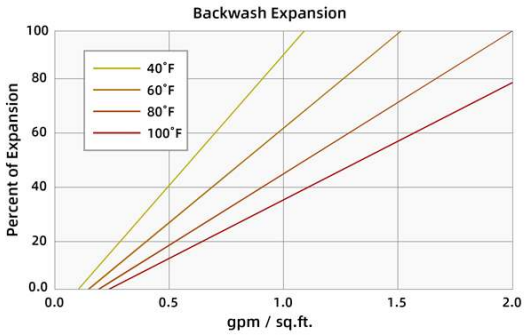
NO.	ITEM	SPEC
1	Total exchange capacity (eq/L)	≥1.45
2	Moisture retention (%)	48-58
3	Particle size range (%)	0.315-1.25mm≥95
4	Whole uncracked beads after attrition (%)	≥96
5	Bulk density(g/ml)	0.65-0.72
6	Specific gravity (g/ml)	1.03-1.06
7	Effective size (mm)	0.4 - 0.6
8	Homogenous coefficient	<1.7
9	Reversible swelling, Free base → Cl- (%)	<20
10	Free moisture (%)	<2

HYDRAULIC PROPERTIES



PRESSURE LOSS

The graph above shows the expected pressure loss of Lanlang TA301D per foot of bed depth as a function of flow rate at various temperatures.



BACKWASH

The graph above shows the expansion characteristics of Lanlang TA301D as a function of flow rate at various temperatures.