

Lanlang ® TA465D

Macroporous nitrate selective anion exchange resin

Used for nitrate and nitrite removal



PRODUCT DESCRIPTION

Lanlang ® TA465D is a premium grade macroporous type I strong base anion exchange resin with polystyrene matrix and quaternary amine (Triethylamine) function group in standard Gaussian size distribution. TA465D has strong selectivity to capture nitrate and decreased selectivity for other anions such as sulfate, chloride and bicarbonate. TA465D is designed to be used to remove nitrate and nitrite from potable water.

BASIC FEATURES

Application:	nitrate and nitrite removal
Polymer matrix structure:	Macroporous polystyrene crosslinked with divinylbenzene (DVB)
Appearance:	White & pale yellow opaque, spherical beads
Functional Group:	Quaternary amine, type I (Triethylamine)
Ionic form as shipped:	Cl-

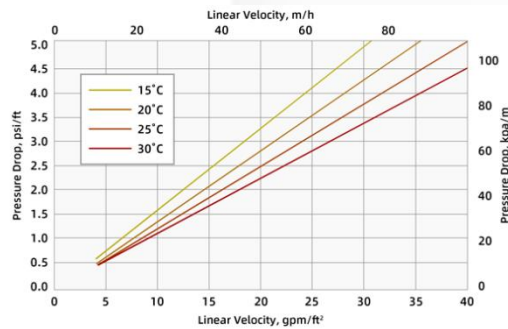
SUGGESTED OPERATING CONDITIONS

NO.	ITEM	SPEC
1	Max operating temperature	60 °C
2	PH range	3-9
3	Service flow rate	5-15 BV/h
4	Regenerant	8-10% NaCl

PHYSICAL AND CHEMICAL PROPERTIES

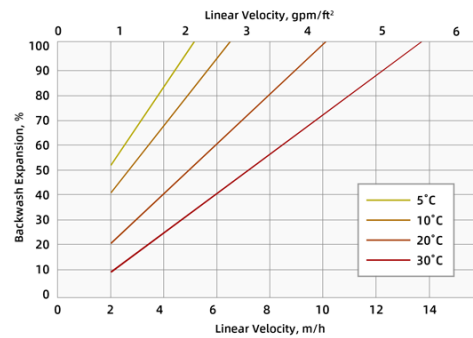
NO.	ITEM	SPEC
1	Total exchange capacity (eq/L)	≥ 0.8
2	Moisture retention (%)	50-60
3	Particle size range (%)	0.315-1.25 mm ≥ 95
4	Whole uncracked beads after attrition (%)	≥ 96
5	Bulk density(g/ml)	0.65-0.75
6	Specific gravity (g/ml)	1.05-1.10
7	Effective size (mm)	0.4 - 0.6
8	Homogenous coefficient	<1.7
9	Free moisture (%)	<2

HYDRAULIC PROPERTIES



PRESSURE LOSS

The graph above shows the expected pressure loss of Lanlang TA465D per foot of bed depth as a function of flow rate at various temperatures.



BACKWASH

The graph above shows the expansion characteristics of Lanlang TA465D as a function of flow rate at various temperatures.