



NINGBO ZHENGGUANG RESIN CO., LTD

ZGA353-II styrene macroporous strongly basic anion exchange resin

1. Description:

The "Hydrolite" ZGA353-II is a sort of anion exchange resin that has quaternary ammonium group $[-N(CH_3)_3OH]$, crosslink of styrene and DVB with macroporous structure. It is mainly used to absorb, enrich and purify uranium in the uranium mine and its waste water, enrich and separate thorium and plutonium, uranium in nuclear industry, especially for separation and purification of vanadium in hydro metallurgy.

2. Typical physical and chemical properties:

Name		Index
Moisture	%	40-50
Total Exchange Capacity	mmol/g \geq	3.20
Total Exchange Capacity	mmol/mL \geq	1.30
Shipping Weight	g/mL	0.69 ~ 0.74
True(Wet) Density	g/mL	1.060 ~ 1.120
Particle size	Particle size range(0.63 ~ 1.400mm) % \geq	90.0

	Lower limited particle size range(< 0.63mm) % \leq	5.0
Effective Coefficient	mm \geq	0.85
Uniformity Coefficient	\leq	1.50
Attrition Stability	% \geq	95.00

四、Reference index

Name		data
pH Range		1~14
Temperature	CL °C	≤ 80
	OH °C	≤ 60
Swelling (Cl-OH) %		≤ 20
Exchange Capacity mmol/L		≥ 400
Resin Bed Height for Industry Usage m		1.0~3.0
Regenerant		NaOH
Regenerant Dosage g/mol		55~80
Regenerate Solution Density %		4~6
Regenerate Solution Flow Rate m/h		3~5
Regenerate Solution Temperature °C		~40
Regenerate Solution Contact Time min		> 30
Displacement Velocity m/h		3~5
Displacement Time min		30~40
Displacement End (alkalinity) mmol/L		< 10
Bed Flow Rate m/h		20~30
Washing Velocity m/h		20~40
Washing Time min		30~40

Washing End	SiO₂ μ g/L	≤ 100
	Conductivity μ s/cm	≤ 10
Operation m/h	Flow Rate	20~40
Operation End	SiO₂ μ g/L	≥ 100
	Conductivity μ s/cm	≥ 10