



RESIN INFORMATION SHEET

Product Name TOYOPEARL® NH2-750F
(Salt-tolerant strong cation exchange chromatography resin)

Part Numbers	0023438	TOYOPEARL NH2-750F, 100 mL
	0023439	TOYOPEARL NH2-750F, 250 mL
	0023440	TOYOPEARL NH2-750F, 1 L
	0023441	TOYOPEARL NH2-750F, 5 L
	0023442	TOYOPEARL NH2-750F, 50 L

Product Description TOYOPEARL chromatographic resins are based on a rigid methacrylic polymer, resulting in high mechanical and chemical stability. Resins are available as non-functionalized “HW” series resins for size exclusion separations, and derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

TOYOPEARL NH2-750F chromatographic resins are designed for anion exchange chromatography and are alkaline durable to 0.5 mol/L NaOH. This chromatographic mode separates molecules on the basis of ionic interactions between the sample and the resin. The separation is usually accomplished in buffered aqueous solution with a gradient of increasing ionic strength. Alternatively, pH adjustment may be used for control of elution.

Operating Conditions	Packing pressure	Typically 0.3 MPa
	Shipping solvent	20 % (v/v) ethanol
	Shipping formulation	72 % (v/v) slurry in shipping solvent (*)
	Pressure limiting factor	Depend on column hardware (typically 0.7 MPa)
	Operating linear flowrate	Typically 10 - 600 cm/hour
	Long-term storage conditions	20 % (v/v) ethanol (counter ion should be replaced with Cl ⁻)
	Cleaning-in-place/Sanitization	0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl

Specifications	Particle size distribution (min. 80 % within range)	30 - 60 µm
	Ion exchange capacity	0.07 - 0.13 eq/L
	Protein adsorption capacity (of human IgG)	Min. 70 g/L
	Bacterial count	Max. 100 CFU/mL
	Endotoxin concentration	Max. 10.0 EU/mL
	Eluable matter	Max. 0.2 % (for dry gel)
	Foreign substance (colored particle)	Max. 6

Additional Information	Appearance	White resin slurry which settles upon standing
	Mean pore diameter (base resin)	> 100 nm (*)

(*) The value is for reference only, not guaranteed.

Lot-specific data are included in the Certificate of Analysis (COA) shipped with the product. For detailed test procedures please refer to the appropriate Regulatory Support File.