



RESIN INFORMATION SHEET

Product Name TOYOPEARL® AF-Formyl-650M
(Reactive resin for affinity chromatography)

Part Numbers	0043413	TOYOPEARL AF-Formyl-650M, 10 mL
	0008004	TOYOPEARL AF-Formyl-650M, 25 mL
	0008040	TOYOPEARL AF-Formyl-650M, 100 mL
	0017396	TOYOPEARL AF-Formyl-650M, 1 L
	0017397	TOYOPEARL AF-Formyl-650M, 5 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 AF-Formyl-650M is a reactive support resin for affinity chromatography. The product is prepared by introducing formyl groups onto TOYOPEARL HW-65. Formyl-activated material is used to immobilize ligands with free amino groups.

Operating Conditions	Packing pressure	Typically 0.3 MPa
	Shipping solvent	1 % (v/v) Glutaraldehyde
	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	1 % (v/v) Glutaraldehyde at 2 - 8 °C

Specifications	Particle size distribution (min. 80 % within range)	40 - 90 µm
	Formyl group concentration	40 - 70 meq/L - gel
	Foreign substance (colored particle)	Unobserved

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.