

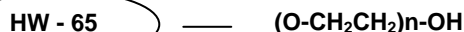


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## PRODUCT SPECIFICATION SHEET

**Product Name:** Toyopearl® Ether-650 (hydrophobic interaction resin – weakly hydrophobic)



<b>Part Numbers:</b>	43151	Toyopearl Ether-650S, 35 µm, 25 mL
	16172	Toyopearl Ether-650S, 35 µm, 100 mL
	16174	Toyopearl Ether-650S, 35 µm, 1 L
	16176	Toyopearl Ether-650S, 35 µm, 5 L
	19805	Toyopearl Ether-650M, 65 µm, 25 mL
	16173	Toyopearl Ether-650M, 65 µm, 100 mL
	16175	Toyopearl Ether-650M, 65 µm, 1 L
	16177	Toyopearl Ether-650M, 65 µm, 5 L
	21372	ToyoScreen Ether-650M, 1 mL x 6 ea.
	21373	ToyoScreen Ether-650M, 5 mL x 6 ea.
	21398	ToyoScreen HIC Mix Pack, 1 mL x 6 grades x 1 ea. (Ether, Butyl-650, Hexyl, Phenyl, PPG, SuperButyl)
	21399	ToyoScreen HIC Mix Pack, 5 mL x 6 grades x 1 ea. (Ether, Butyl-650, Hexyl, Phenyl, PPG, SuperButyl)
	21400	ToyoScreen Column Holder
	42194	ToyoScreen Column Holder with fittings

**Product Description:** Toyopearl is a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalised “HW” series resins for size exclusion separations, and derivatised with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

Toyopearl Ether-650 chromatographic resin is designed for hydrophobic interaction chromatography. This chromatographic mode separates molecules on the basis of hydrophobic interactions between the sample and the resin. The separation is usually accomplished in buffered aqueous solution with a gradient of decreasing ionic strength.

**Formulation:** Particulate resin (spherical), available in particle sizes (mean diameter):  
35 µm = “S” grade  
65 µm = “M” grade  
Supplied as slurry in 20 % ethanol (v/v).

**Physicochemical Specifications:**

▪ Appearance	White resin slurry which settles upon standing
▪ Particle Size Distribution (>80 % within range)	20 – 50 µm for Ether-650S 40 – 90 µm for Ether-650M
▪ Exclusion Limit	5 x 10 <sup>6</sup> Dalton (globular protein)
▪ Mean Pore Diameter	1000 Å
▪ Pressure drop across the column	max. 7 bar (recommended)
▪ Operating Linear Flowrate	normally 10 – 600 cm/hour (depending on particle size)

▪ Protein Adsorption Capacity	20 ± 10 mg/mL (Lysozyme)
▪ Bacterial Count	≤ 100 CFU/mL
▪ Endotoxin Concentration	≤ 10.0 endotoxin units/mL
▪ Pack sizes and type	25 mL, 50 mL, 100 mL, 250 mL, 1 L, 5 L, 50 L Packed in virgin Polyethylene container with Polypropylene cap.
▪ Resin Volume per Container	The indicated volume is the settled resin volume.
▪ Shipping Solvent	72 % (v/v) slurry in 20 % (v/v) ethanol
▪ Long Term Storage Conditions	20 % (v/v) ethanol
▪ Cleaning in Place / Sanitization	0.5 M NaOH or 0.1 M HCl
▪ Foreign Substance	not observed, no visual evidence
▪ Eluable Matter	< 0.1 %
▪ Shelf Life Stability	Minimum 5 years

**For detailed test procedures please refer to Regulatory Support File BB-MF-3907.**