# TOSOH BIOSCIENCE

# RESIN INFORMATION SHEET

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| **Product Name** | **TOYOPEARL® NH2-750F**<br>(Salt-tolerant strong cation exchange chromatography resin) |

| **Part Numbers** | | |
|---|---|---|
| | 23438 | **TOYOPEARL** NH2-750F, 100 mL |
| | 23439 | **TOYOPEARL** NH2-750F, 250 mL |
| | 23440 | **TOYOPEARL** NH2-750F, 1 L |
| | 23441 | **TOYOPEARL** NH2-750F, 5 L |
| | 23442 | **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**

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| 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**

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| Particle size distribution<br>   (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**

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| 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.