

TSKgel® SuperAW Columns

High Throughput Size Exclusion combined with Aqueous to 100% Organic Mobile Phase Compatibility

TSKgel
PRODUCT OVERVIEW

Introduction

TSKgel SuperAW columns provide researchers a fast and versatile solution for synthetic polymer analysis. The highly cross linked methacrylate backbone allows for repeated solvent changes from aqueous to 100% polar organic without shrinking or swelling (see Figure 1). Unwanted hydrophobic interactions common with hydrophobic polymers in polar organic eluents are also eliminated due to the hydrophilic nature of the base material.

Product Highlights

- Particle sizes as small as 4µm cuts analysis time in half
- Narrow 6.0mm ID for 30% less solvent consumption
- No swelling or shrinkage when switching from 100% aqueous to 100% polar organic solvents
- Hydrophobic interactions common in polar organic solvents are eliminated
- Series consists of five discreet pore sizes & one mixed bed column

Applications

Although the calibration curves change slightly depending on the solvent chosen (see Figure 2), polymers from 2000 to 4 million Da can be analyzed using one of the TSKgel SuperAW columns in the series by selecting either an appropriate pore size column or the linear mixed bed column.

The TSKgel SuperAWM-H mixed bed column blends several gel types to provide an expanded linear separation range. Regardless of which column is chosen, all columns offer a reduced particle size packed in a 6.0mm ID x 15cm dimension for decreased solvent consumption and run time.

Figure 1. Solvent Compatibility of TSKgel SuperAW Series

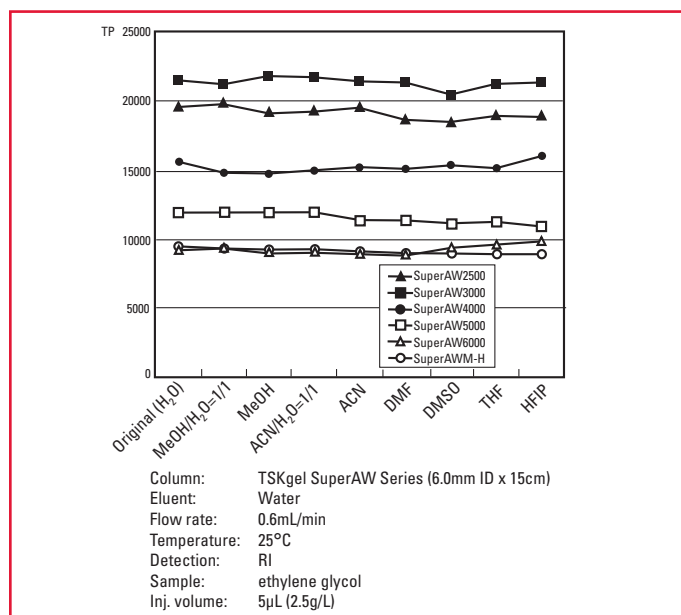
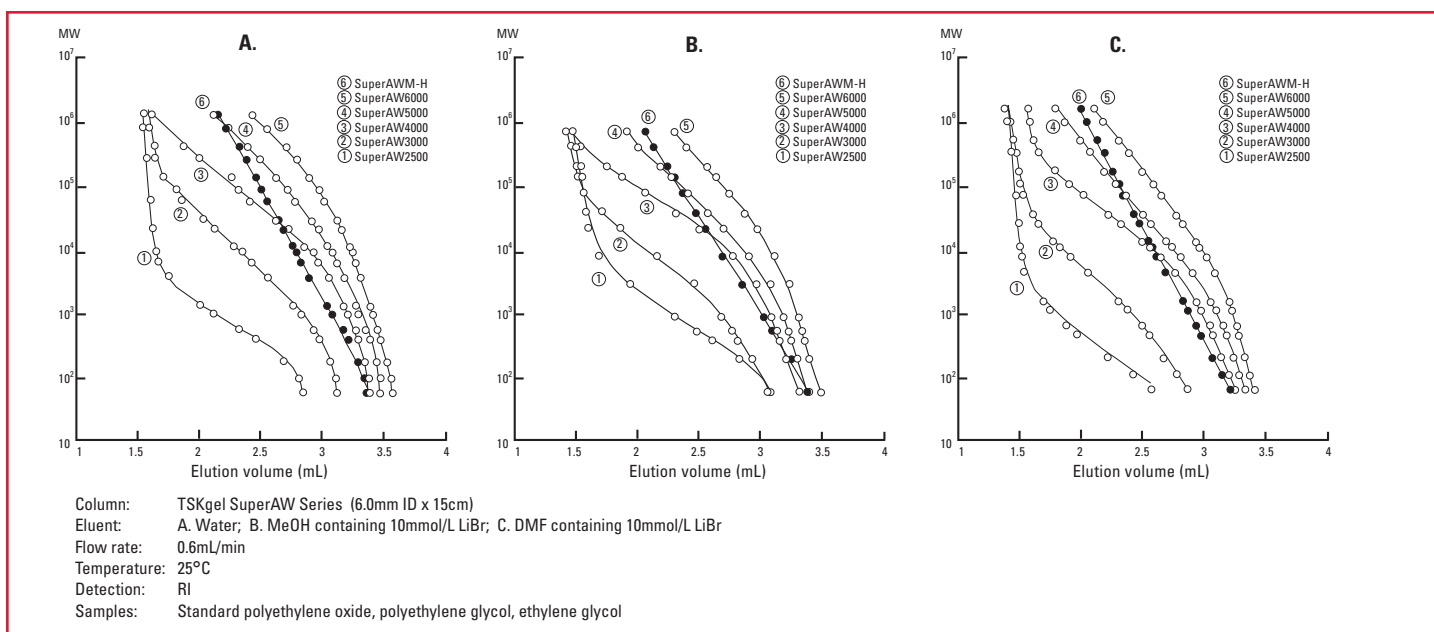


Figure 2. Polyethylene oxide (PEO), polyethylene glycol (PEG) and ethylene glycol (EG) calibration curves for TSKgel SuperAW Series



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Ordering Information

Part #	Description	Matrix	Housing	ID (mm)	Length (cm)
19315	TSKgel SuperAW2500, 4µm, 25Å	Polymer	Stainless Steel	6.0	15
19316	TSKgel SuperAW3000, 4µm, 150Å	Polymer	Stainless Steel	6.0	15
19317	TSKgel SuperAW4000, 6µm, 450Å	Polymer	Stainless Steel	6.0	15
19318	TSKgel SuperAW5000, 7µm, 1000Å	Polymer	Stainless Steel	6.0	15
19319	TSKgel SuperAW6000, 9µm	Polymer	Stainless Steel	6.0	15
19320	TSKgel SuperAWM-H, 9µm, mixed bed	Polymer	Stainless Steel	6.0	15
19321	Guard Column for TSKgel SuperAW 2500-4000	Polymer	Stainless Steel	4.6	3.5
19322	Guard Column for SuperAW 5000-AWM-H	Polymer	Stainless Steel	4.6	3.5



TOSOH

TOSOH BIOSCIENCE

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