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## **OPERATING CONDITIONS and SPECIFICATIONS**

## TSKgel<sup>®</sup> G6000PWxLProducts

Part Numbers: 0008024 7.8mm ID x 30.0 cm L 13 μm

This sheet contains the recommended operating conditions and the specifications for **TSKgel** G6000PWxL columns. Installation instructions and column care information are described in a separate Instruction Manual.

## A. OPERATING CONDITIONS

Shipping Solvent: Water

2. Max.Flow Rate: 1.0 mL/min

NOTE: When a buffer with high viscosity is used, the maximum flow rate may have to be reduced so as

not to exceed the maximum pressure drop. When changing solvents, use a flow rate equal to

25% of the maximum flow rate.

3. Standard Flow Rate: 0.3 - 0.6 mL/min

4. Max. Pressure: 2 MPa

5. pH Range: 2.0 - 12.0

6. Salt Conc.: ≤ 0.5 Molar

7. Organic Conc.: ≤ 20% It is possible to use up to 50% organic when the solvent change is made very gradually using a

shallow gradient at low flow rate.

8. Temperature: 10 - 80°C Reduce flow rate when operating below 10°C.

9. Cleaning Solvents: (1) High salt concentration buffer (0.5 - 1.0 M), or

(2) pH 2 - 3 or pH 9 - 12 buffer, or

(3) Buffer with acetonitrile or methanol, or if nothing else is successful

(4) Buffer with urea or SDS

NOTE: Choose a cleaning solvent based on sample properties, e.g. use (1) to remove basic polymers, (3)

to remove hydrophobic proteins etc.

10. Storage: Store the column in a 0.05% NaN<sub>3</sub> solution or 20% ethanol in DI water when it will not be used the

next day. For overnight storage flush the column at low flow rate with the mobile phase. Prevent

air from entering the column!

11. Column Protection: The use of a guard column (TSKgel PWxL Guard Column P/N 0008033) is recommended to

prolong the life of the analytical column. Guard column life depends greatly on sample cleanliness. As a general rule, guard columns should be replaced after every 30-40 sample injections, when the peaks become excessively wide, or when the peaks show splitting.

12. Top-Off: Occasionally, due to accident, sample, mobile phase or operational variables, a depression can

develop at the column or guard column inlet.

Use TSKgel Top-Off PWXL (P/N 0008035) for filling in such voids.

B. SPECIFICATIONS The performance of TSKgel G6000PWxL columns is tested under the conditions described in the

Data Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N):  $\geq$  7,000

Asymmetry Factor (AF): 0.7 - 1.6

Note our technical hotline tel +49 6155 70437-36 and e-mail, techsupport.tbg@tosoh.com

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