

TSK-GEL[®] SuperQ-5PW Products

Part Numbers:	18257, 7.5mm ID x 7.5cm, 10 μ m 18386, 8.0mm ID Glass x 7.5cm, 10 μ m 18387, 21.5mm ID x 15cm, 13 μ m	18388, Guardgel kit for PN 18257
Small Ion Capacity:	> 0.1 meq/mL	Counter Ion: Cl ⁻

This sheet contains the recommended operating conditions and the specifications for TSK-GEL SuperQ-5PW columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS	
1. Shipping Solvent:	Column: Distilled and Deionized Water Guardgel Kit: 50%Methanol/50% Water
2. Max. Flow Rate:	1.2mL/min (8.0mm ID & 7.5mm ID) 8.0mL/min (21.5mm ID) When changing solvents, use a flow rate equal to 50% of the maximum flow rate.
3. Standard Flow Rate:	0.5 - 1.0mL/min (8.0mm ID & 7.5mm ID) 4.0 - 6.0mL/min (21.5mm ID)
4. Max. Pressure:	2MPa
5. pH Range:	2.0 - 12.0
6. Salt Conc.:	\leq 0.5Molar
7. Organic Conc.:	\leq 20%
8. Temperature:	\leq 45°C - Reduce flow rate when operating below 10°C.
9. Cleaning Solvents:	(1) 0.1 - 0.2M NaOH. If not successful, (2) 20 - 40% acetic acid aqueous, or (3) Aqueous buffer in 30% acetonitrile or methanol, or (4) Urea or nonionic surfactant in buffer.
NOTE:	Clean the column regularly by injecting up to one column volume 0.1 - 0.2M NaOH in 250 μ l increments.
10. Storage:	Store the column in DI water when it will not be used the next day. For overnight storage flush the column with the low salt concentration mobile phase at 10 - 20% of the maximum flow rate. Prevent air from entering the column!
B. SPECIFICATIONS	
The performance of TSK-GEL SuperQ-5PW columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:	
1. Number of Theoretical Plates (N):	\geq 1,300 (8.0mm ID & 7.5mm ID) \geq 3,000 (21.5mm ID)
2. Asymmetry Factor (AF):	0.8 - 1.6