## **RESIN INFORMATION SHEET**

Product Name TSKgel® SP-3PW (30)

(Strong cation exchange chromatography resin)

Part Numbers 0021976 TSKgel SP-3PW (30), 25 mL

0021977 TSKgel SP-3PW (30), 250 mL 0021978 TSKgel SP-3PW (30), 1 L 0021979 TSKgel SP-3PW (30), 5 L

**Product Description** 

TSKgel is a methacrylic polymer with very high mechanical and chemical stability.

**TSKgel SP-3PW** chromatographic resin is designed for ion exchange chromatography, especially for insulin purification. 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

Packing pressure	Typically 1 MPa
Shipping solvent	20 % (v/v) ethanol
Shipping formulation	72 % (v/v) slurry in shipping solvent (*)
Pressure limiting factor	Depend on column hardware (typically 2 MPa)
Operating linear flowrate	Typically 60 - 1200 cm/hour (depend on particle size)
Long term storage conditions	20 % (v/v) ethanol
Cleaning in place / sanitization	0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl

## Specifications

20 - 40 μm for (30)-grade
0.07 - 0.22 eq/L
Min. 65 g/L
Max. 100 CFU/mL
Max. 10.0 EU/mL
Max. 0.2 % (for dry gel)
Max. 6

## Additional Information

Appearance	White resin slurry which settles upon standing
Mean pore diameter (base resin)	25 nm (*)

<sup>(\*)</sup> 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.