

TSK has available a wide range of columns with different percentages of coating, degree of endcapping, etc. which cover a wide field of applications.

The nomenclature used by TosoHass describes each packing. Thus, for example, a packing ODS-80TM indicates a packing of 80A pores substituted with octadecylsilane groups. The letter T

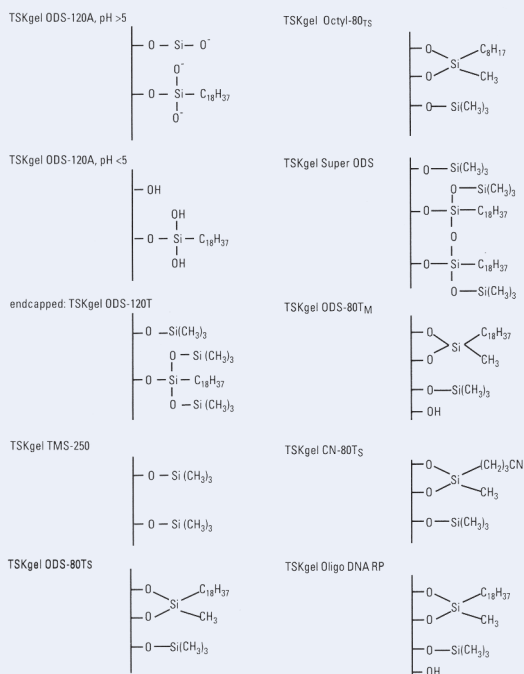
means that the packing has been processed by endcapping with TMS groups.

The letter A describes a packing without endcapping, and the letter M means that the coating is of a monolayer of C18 groups. If an S appears in the description it means that the packing is totally endcapping.

Properties of silica-based TSK-GEL RPC columns

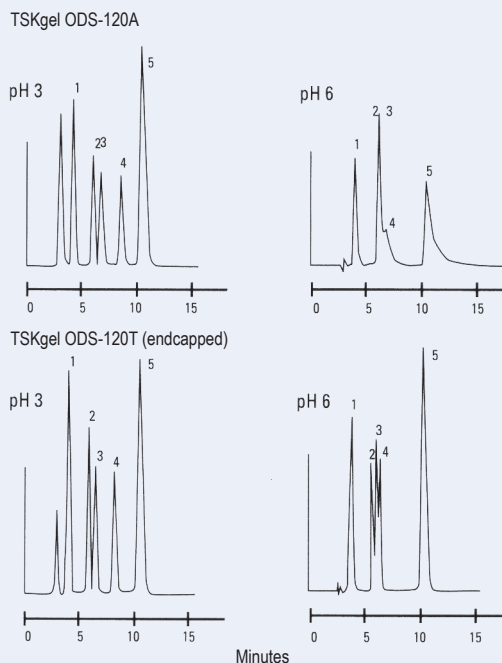
Column	Functional Group	Endcapped	% Carbon	Particle size (µm)	Pore size (µm)	Exclusion limit (Da)
ODS-80 _M	C ₁₈ alkyl, monomeric	Yes	15%	5, 10, 20	80	100-6,000
ODS-80 _S	C ₁₈ alkyl, monomeric	Yes	15%	5, 10, 20	80	100-6,000
OCTYL-80T _S	C ₈ alkyl, monomeric	Yes	11%	5	80	10,000
CN-80T _M	CN, monomeric	Yes	8%	5	80	10,000
SUPER-ODS	C ₁₈ alkyl, polymeric	Yes	8%	2	110	20,000
SUPER-Octyl	C ₁₈ alkyl, polymeric	Yes	5%	2	110	20,000
SUPER-Phenyl	Phenyl, polymeric	Yes	3%	2	110	20,000
ODS-120T	C ₁₈ alkyl, polymeric	Yes	22%	5, 10, 20	120	100-10,000
ODS-120A	C ₁₈ alkyl, polymeric	No	22%	5, 10	120	100-10,000
TMS-250	C ₁ alkyl, monomeric	Yes	5%	10	250	100-200,000
OligoDNA RP	C ₁₈ alkyl, monomeric	No	10%	5	250	up to 165,000

TSK-Gel bonded silica stationary phases



TKL 1016

Effect of pH and degree of endcapping on the resolution of catecholamines



Column: TSKgel ODS-120A, 4.6mm x 25cm
 TSKgel ODS-120T, 4.6mm x 25cm
Sample: 1 norepinephrine, 2 epinephrine
 3 3,4-dihydroxybenzylamine, 4 DL-DOPA,
 5 dopamine-HCl
Elution: 0.1M phosphate buffer, pH 3.0 or 6.0
Flow rate: 1.0ml/min
Detection: UV @ 254nm

Analytical Columns TSK Gel Reversed Phase

Code	TSKgel	ID) (mm)	Length (cm)	Particle size (μm)
TH-18150	ODS-80T _S 80A	2,0	15	5
TH-18151	ODS-80T _S 80A	2,0	25	5
TH-17200	ODS-80T _S 80A	4,6	7,5	5
TH-17201	ODS-80T _S 80A	4,6	15	5
TH-17202	ODS-80T _S 80A	4,6	25	5
TH-16651	ODS-80T _M 80A	4,6	7,5	5
TH-08148	ODS-80T _M 80A	4,6	15	5
TH-08149	ODS-80T _M 80A	4,6	25	5
TH-17344	Octyl-80T _S 80A	4,6	15	5
TH-17345	Octyl-80T _S 80A	4,6	25	5
TH-17348	CN-80T _S 80A	4,6	15	5
TH-17349	CN-80T _S 80A	4,6	25	5
TH-07636	ODS-120A 120A	4,6	15	5
TH-07124	ODS-120A 120A	4,6	25	5
TH-18152	ODS-120T 120A	2,0	15	5
TH-18153	ODS-120T 120A	2,0	25	5
TH-07637	ODS-120T 120A	4,6	15	5
TH-07125	ODS-120T 120A	4,6	25	5
TH-07190	TMS-250 250A	4,6	7,5	10

Guard Columns TSK Gel Reversed Phase

Code	TSKgel	ID) (mm)	Length (cm)	Particle size (μm)
TH-17242	ODS-80TS, Guard Cartridge, pk 3	3,2	5	1,5
TH-14100	Cartridge Holder	3,2		1,5

TSK Gel SUPER-ODS

- Efficiencies of 200,000N/m
- 2 μm particles
- Extremely short analysis times
- Reduced working pressures
- Lower costs of analysis

TSKgel Super-ODS is a reverse phase column that contains 2 μm particles of silica with 150 Å pore size.

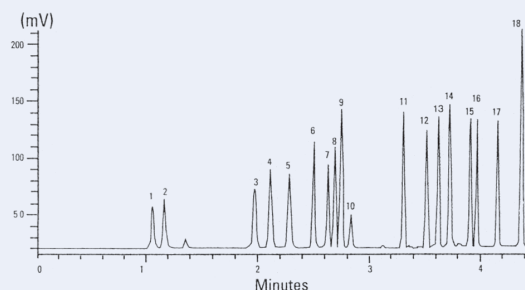
This column is the best choice when it is required to shorten the analysis time for all types of compounds up to 20,000 Daltons, including the most basic.

Ultrarapid columns TSKgel Super-ODS

Analytical and preparative column specifications, in reversed phase TSK-GEL.

Code	TSKgel	ID) (mm)	Length (cm)	Particle size (μm)
TH-18154	Super-ODS, 110A	4,6	5	2
TH-18197	Super-ODS, 110A	4,6	10	2
TH-18275	Super-Octyl, 110A	4,6	5	2
TH-18176	Super-Octyl, 110A	4,6	10	2
TH-18177	Super-Phenyl, 110A	4,6	5	2
TH-18178	Super-Phenyl, 110A	4,6	10	2
TH-18206	Super-ODS Guard filter holder	10	2,6	For P/N 18207
TH-18207	Super-ODS Guard filter	4,0	2,6	For Super-ODS, Phenyl and -Octyl 2 μm pore size

TSKgel Super-ODS for rapid separation of eighteen PTC-derivatized amino acids



Column: TSKgel Super-ODS (4.6mm x 10cm)
Sample: 1. Asp, 2 Glu, 3. Ser, 4. Gly, 5. His, 6. Arg, 7. Thr, 8. Ala, 9. Pro, 10. PTC-NH₂, 11. Try, 12. Val, 13. Met, 14. Cys, 15. Ile, 16. Leu, 17. Phe, 18. Lys
Elution: CH₃CN/H₂O = 60/40
 0min (b:5%), 4min (b:100%)
Flow Rate: 1.5mL/min
Detection: UV @ 254nm
Injection: 5 μL
Temperature: ambient