

Separation mode	Functional group	Packing agent name	Particle size (µm)	Pore size (nm)	Specific surface area (m <sup>2</sup> /g)	Pore size (mL/g)	C%	Primary modification	End capping	Maximum pressure	pH range*	Validation Support	Solvent filled at time of shipment	USP L No.	Other features	
Reverse phase	C1 (Trimethylsilyl)	Wakosil 5TMS	5	12	300	1.0	4	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L13	-	
		Wakosil 5C4	5	12	300	1.0	8	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L26	-	
	C4	Wakosil 5C4-200	5	20	200	1.0	5	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L26	Rapid analysis	
		Wakosil-II 5C8 HG	5	12	300	1.0	10	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L7	Uses high-purity silica gel with low metal content, high number of theoretical plates	
		Wakosil-II 5C8 RS	3	10	400	1.0	10	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L7	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
	C8	Wakosil-II 3C8 RS	5	12	300	1.0	12	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L7	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
		Wakosil 5C8	5	12	300	1.0	12	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L7	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
		Ultra C18-2	2	10	340	0.9	16	Polymeric	○	70 MPa 30 MPa	1.5-10	-	CH <sub>3</sub> CN/H <sub>2</sub> O=70/30	L1	Low adsorption (polar compounds), available at pH 1.5 to 10.0, for UHPLC	
	ODS (C18)	Ultra C18-3	3	12	340	1.0	16	Polymeric	○	70 MPa 30 MPa	1.5-10	-	CH <sub>3</sub> CN/H <sub>2</sub> O=70/30	L1	Low adsorption (polar compounds), available at pH 1.5 to 10.0	
		Ultra C18-5	5	10	350	1.0	22	Polymeric	○	70 MPa 30 MPa	1.5-10	-	CH <sub>3</sub> CN/H <sub>2</sub> O=70/30	L1	Uses high-purity silica gel with low metal content, high carbon content	
		Wakosil-II 5C18-100	4.2~4.7	11~13	280~320	0.85~1.00	13.0~17.0	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, high number of theoretical plates	
		Wakosil-II 5C18 HG	4.2~4.7	11~13	280~320	0.85~1.00	17.0~22.0	Polymeric	○	20 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, available at pH 1.4 to 9.4, high stereoselectivity	
		Wakosil-II 5C18 AR	3.2~3.7	11~13	390~430	1.15~1.30	16.0~18.5	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
		Wakosil-II 5C18 RS	3.2~3.7	11~13	390~430	1.15~1.30	16.0~18.5	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
		Wakosil-II 3C18 HG	3.0~3.7	11~13	280~320	0.85~1.00	13.0~17.0	Monomeric	○	30 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, high number of theoretical plates	
		Wakosil-II 3C18 AR	3.0~3.7	11~13	280~320	0.85~1.00	17.0~22.0	Polymeric	○	30 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, available at pH 1.4 to 9.4, high stereoselectivity	
		Wakosil-II 3C18 RS	3.0~3.7	11~13	390~430	0.95~1.10	16.0~18.0	Monomeric	○	30 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, high resolution in aqueous eluents	
		Wakosil-II 5C18 HG Prep	about 5	12	300	1.0	16	Polymeric	○	20 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, used for preparative chromatography	
		Wakosil-II 5C18 AR Prep	about 5	12	300	1.0	18	Polymeric	○	20 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, used for preparative chromatography	
		Wakosil-II 5C18 RS Prep	about 5	12	400	1.2	17	Polymeric	○	20 MPa	1.4-9.4	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content, used for preparative chromatography	
		Handy ODS	6~7	10.5~13.5	270~330	0.80~1.05	13.0~18.0	17	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Low column pressure
		Wakosil 5C18	5	12	300	1.0	16	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Reversed-phase distribution, adsorption by slight silanol groups	
		Wakosil 5C18T	5	12	300	1.0	16	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Adsorption by silanol groups	
		Wakosil 5C18N	5	12	300	1.0	16	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Adsorption by silanol groups	
		Wakosil 7C18	7	10	300	1.0	16	Monomeric	○	15 MPa 10 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Adsorption by silanol groups	
		Wakosil 10C18	10	10	300	1.0	16	Monomeric	○	15 MPa 10 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Adsorption by silanol groups	
		Wakosil 5C18AR	5	12	300	1.0	16	Polymeric	○	20 MPa	1.4-9.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Available at pH 1.4 to 9.4, high stereoselectivity	
		Wakosil 5C18-200	5	20	200	1.0	12	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Rapid analysis	
	Wakosil 5C18-200T	5	20	200	1.0	12	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Reversed-phase distribution, adsorption by slight silanol groups, rapid analysis		
	Wakosil 5C18-200N	5	20	200	1.0	12	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Adsorption by slight silanol groups, rapid analysis		
	Wakosil 10C18-200	10	10	200	1.0	12	Monomeric	○	15 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Rapid analysis		
	eco-ODS	5	12	300	1.0	16	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Low price		
	Navi C18-5	5	12	300	1.0	19	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Comparison can be made between packing agent with chain lengths from C18 to C30, high stereoselectivity		
	C22	Wakosil-II 5C22	5	12	330	1.0	20	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Uses high-purity silica gel with low metal content	
		Navi C22-5	5	12	400	1.2	20	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	Comparison can be made between packing agent with chain lengths from C18 to C30, high stereoselectivity	
	C30	Navi C30-5	5	12	300	1.0	23	Polymeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L62	Comparison can be made between packing agent with chain lengths from C18 to C30, high stereoselectivity	
	Ph (Phenyl)	Wakosil 5Ph	5	12	300	1.0	9	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L11	-	
	Polyfluoroalkyl	Fluorix-II 120E	5	12	300	1.0	9.5	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN	L#	Specific ability to recognize halogen compounds	
	Normal phase - Reverse phase	CN (Cyanopropyl)	Wakosil-II 5CN	5	11	360	1.0	7	Monomeric	○	20 MPa	2-7.5	-	Ethanol	L10	Uses high-purity silica gel with low metal content
			Wakosil 5CN	5	12	300	1.0	7	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN	L10	-
Normal phase	NH <sub>2</sub> (Aminopropyl)	Wakosil 5NH2	5	12	300	1.0	-	Monomeric	○	20 MPa	2-7.5	-	Ethanol	L8	Amino group content 1.35 mmol/g	
		Wakosil 5SIL	5	6	500	0.75	-	-	○	20 MPa	2-7.5	-	Ethanol	L8	Amino group content 1.35 mmol/g	
Normal phase	OH (Silanol)	Wakosil 10SIL	10	6	500	0.75	-	-	○	10 Mpa	1-4.0	-	n-Hexane/CH <sub>3</sub> CN=99/1	L3	-	
		Wakosil 5SIL-120	5	12	300	1.0	-	-	○	20 MPa	1-4.0	-	n-Hexane/CH <sub>3</sub> CN=99/1	L3	-	
		Wakosil 7SIL-120	7	12	300	1.0	-	-	○	20 MPa	1-4.0	-	n-Hexane/CH <sub>3</sub> CN=99/1	L3	-	
		Wakosil-II 5SIL Prep	about 5	12	300	1.0	-	-	○	15 MPa	1-4.0	-	n-Hexane/CH <sub>3</sub> CN=99/1	L3	Uses high-purity silica gel with low metal content, used for preparative chromatography	
HILIC	OH (Silanol)	Wakosil-II 5SIL-AQ	5	6	500	0.75	-	-	○	20 MPa	1-4.0	-	CH <sub>3</sub> CN	L3	Used in hydrophilic interaction chromatography (HILIC)	
Size exclusion	(OH) <sub>2</sub> (Diol)	Wakosil 5Diol-60	5	6	-	-	-	-	○	20 MPa	5-7.5	-	0.05% Na <sub>2</sub> S	L20, L33, L59	Silica-based gel filtration columns	
		Wakosil 5Diol-120	5	12	-	-	-	-	○	35 Mpa	5-7.5	-	0.05% Na <sub>2</sub> S	L20, L33, L59	Silica-based gel filtration columns	
		Wakosil 5Diol-200	5	20	-	-	-	-	○	35 Mpa	5-7.5	-	0.05% Na <sub>2</sub> S	L20, L33, L59	Silica-based gel filtration columns	
		Wakosil 5Diol-300	5	30	-	-	-	-	○	35 Mpa	5-7.5	-	0.05% Na <sub>2</sub> S	L20, L33, L59	Silica-based gel filtration columns	
Dedicated column	for Amino acid analysis	Ultra APDS TAG <sup>®</sup>	-	-	-	-	-	-	-	-	-	-	-	-	for APDS amino acid analysis, can separate amino acids with identical m/z (e.g. leucine, isoleucine), for UHPLC	
		Wakosil-PTH	5	-	-	-	-	-	-	20 MPa	2-7.5	-	PTH-amino Acids Mobile Phase	-	for PTH amino acid analysis by Edman degradation	
		Wakosil-PTC	5	-	-	-	-	-	-	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	-	for PTC amino acid analysis	
		Wakosil GP-N6	5	-	-	-	-	-	-	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=40/60	-	Proteins pass through the column	
		Wakosil-DNA	5	-	-	-	-	-	-	20 MPa	2-9	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	-	for Oligo DNA (single strand DNA up to tens of mer) analysis	
		Wakosil-Cu	5	-	-	-	-	-	Monomeric	○	20 MPa	2-7.5	-	Wakosil <sup>®</sup> Agri-9 Eluent	L1	ODS columns for oxine copper analysis of pesticides
		Wakosil Agri-9	5	-	-	-	-	-	-	20 MPa	2-7.5	-	Wakosil <sup>®</sup> Agri-9 Eluent	-	for Pesticide residue analysis	
		Wakosil-PAHs	5	-	-	-	-	-	Polymeric	○	20 MPa	1.4-9.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1, L118	for 16 PAHs analysis as specified by EPA610
		Wakosil DNP	5	-	-	-	-	-	-	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	-	for DNP derivatized aldehyde analysis	
		Wakosil DNP-HI	5	-	-	-	-	-	-	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	-	for DNP derivatized aldehyde analysis, rapid analysis	
		ODS (C18)	Combi ODS	5	10	400	1.2	17	Monomeric	○	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	for combinatorial chemistry purification
			Combi ODS fast	3	-	-	1.0	-	-	-	30 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	L1	for combinatorial chemistry purification, rapid separation
Core C18 ADRA	-		-	-	-	-	-	-	-	-	-	-	-	for ADRA analysis		
CN (Cyanopropyl)	Combi CN	5	10	400	1.0	8.5	Monomeric	○	20 MPa	2-7.5	-	Ethanol	L10	for Combinatorial chemistry purification		
for Anionic surfactant (LAS) analysis	Wakosil AS-Aqua	5	-	-	-	-	-	-	20 MPa	2-7.5	-	CH <sub>3</sub> CN/H <sub>2</sub> O=60/40	-	Separate anionic surfactant (LAS) isomers as one peak per carbon chain length		

\*Practical tests in the stated pH range have not been conducted.