



Dikma HPLC / UHPLC Columns Selection Guide

HPLC Column Selection Chart

Sample MW	Sample Solubility	Separation Mode	Dikma Recommended Column	Page		
Molecular Weight of Sample	<2000	Organic Soluble	Fat Soluble	Normal Phase	Platisil™ NH ₂ ^{NEW} *	
					Platisil™ CN ^{NEW} *	
				Platisil™ Silica ^{NEW} *		
				Inspire™ Diol ^{NEW} *		
				Inspire™ HILIC ^{NEW} *		
			MeOH / H ₂ O Soluble	Reversed Phase	Endeavorsil™ C18	P5
		Leapsil™ C18			P15	
		Inspire™ C18, C8			P21	
	Spursil™ C18, C18-EP	P31				
	Platisil™ C18	P54				
	Platisil™ PH ^{NEW} *	*				
		Diamonsil® C18, C8	*			
		Water Soluble	Non-Ionic	Reversed Phase	Endeavorsil™ C18	P5
	Leapsil™ C18				P15	
	Inspire™ C18, C8				P21	
	Spursil™ C18, C18-EP				P31	
	Ionic		Reversed Phase Ion-Pair / Suppression	Platisil™ C18	P54	
Platisil™ PH ^{NEW} *				*		
Diamonsil® C18, C8				*		
Platisil™ NH ₂ ^{NEW} *				*		
	Peptides and Proteins	Reversed Phase	Inspire™ HILIC ^{NEW} *	*		
Endeavorsil™ C18			P5			
Leapsil™ C18			P15			
Inspire™ C18, C8			P21			
	>2000	Water Soluble	Reversed Phase	Spursil™ C18, C18-EP	P31	
				Platisil™ C18	P54	
				Diamonsil® C18, C8	*	
				Bio-Bond™ C18, C8, C4	P52	

Dikma HPLC / UHPLC Column	General Description	Primary Features	Applications	Specifications	Page
Endeavorsil™ C18	1.8 μm UHPLC columns for improved resolution, throughput, and sensitivity as well as reduced solvent consumption	<ul style="list-style-type: none"> • Combined speed, resolution, and sensitivity • Reduced analysis time and solvent waste • High efficiency combined with high selectivity and productivity • Superior column performance at higher pressure • Excellent separation characteristics over wide pH range 	Separate hydrophobic and polar compounds in UHPLC system	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 1.8 μm Pore Size: 120 Å Surface Area: 300 m ² /g Phase Density: 3.5 μmol/m ² pH Range: 1.5-9 Carbon Loading: 20% Endcapping: Yes	5
Leapsil™ C18	2.7 μm HPLC / UHPLC compatible columns, low operating pressure	<ul style="list-style-type: none"> • Ultra fast separation without compromising resolution • Compatible with all HPLC and UHPLC instruments • Low operating pressure allows higher flow rates • Method development flexibility use MeCN or MeOH without the limitations of backpressure and the need for elevated temperatures • Wide pH stability • Full spectrum of phases and selectivities 	Separate hydrophobic and polar compounds in HPLC system but get UHPLC results	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 2.7 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.9 μmol/m ² pH Range: 1.5-10 Carbon Loading: 27% Endcapping: Yes	15
Inspire™ C18	Universal reversed-phase columns, very high carbon loading	<ul style="list-style-type: none"> • Rapid separations with outstanding resolution • Advanced bonding technologies • High efficiency and outstanding lifetime • Excellent separation characteristics over wide pH range • Superior batch-to-batch reproducibility • Choose from a variety of phases and hardware formats • pH range 1-11 	General purpose method development column. Excellent retention for hydrophobic and polar compounds	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.9 μmol/m ² pH Range: 1-11 Carbon Loading: 27% Endcapping: Yes	21
Inspire™ C8	Universal C8 phase columns	<ul style="list-style-type: none"> • Rapid separations with outstanding resolution • Advanced bonding technologies • High efficiency and outstanding lifetime • Excellent separation characteristics over wide pH range • Superior batch-to-batch reproducibility • Choose from a variety of phases and hardware formats • pH range 1-11 	General purpose method development column. Less hydrophobic, and therefore, less retentive than C18 for most analytes	USP Code: L7 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 4.2 μmol/m ² pH Range: 1-11 Carbon Loading: 17% Endcapping: Yes	21
Inspire™ HILIC <small>NEW</small>	Ideal for separating and retaining polar compounds that may not retain on traditional RP packings	<ul style="list-style-type: none"> • Unique selectivity and increased retention for highly polar compounds • Increased sensitivity and lower detection limits with microbore • Enhanced retention for hydrophilic / polar compounds • Increased laboratory throughput and productivity • Superior batch-to-batch reproducibility • Suitable for the separation of hydrophilic compounds such as polar acids and bases, polar compounds, nucleosides, oligonucleotides, amino acids, peptides, and water-soluble vitamins 	Separation of polar and ionic compounds under RP conditions	Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g pH Range: 1.5-7.5 Endcapping: No	*

Dikma HPLC / UHPLC Column	General Description	Primary Features	Applications	Specifications	Page
Inspire™ Diol <small>NEW</small>	Suitable for RP, NP, and HILIC modes	<ul style="list-style-type: none"> Monomerically bonded dihydroxypropyl group Ultra pure silica and unique bonding chemistry promote long column lifetime, excellent column reproducibility and high inertness without endcapping Unique selectivity for polar / hydrophilic compounds in RP, NP, and HILIC modes Lower polarity than unmodified silica and very easily wettable with water Higher retentivity than silica in NP mode and useful tool as preparative column owing to easy dry-up 	Separation of polar / hydrophilic compounds in RP, NP, and HILIC modes	USP Code: L20 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 2.1 μmol/m ² pH Range: 2-7.5 Carbon Loading: 7.5% Endcapping: No	*
Spursil™ C18	Polar modified columns for use with 100% organic to 100% aqueous mobile phases	<ul style="list-style-type: none"> Combine high purity silica with unique polar modification technology Unique selectivity and enhanced resolution Silanol shielding for excellent peak shape Improved water wettability and stable retention in highly aqueous mobile phase conditions Excellent retention for polar compounds Extended range pH stability Choose from a variety of selectivities and hardware formats 	Excellent retention for polar compounds. Can be used for challenging reversed-phase separations employing highly aqueous mobile phases	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.5 μmol/m ² pH Range: 1.5-10 Carbon Loading: 25% Endcapping: Yes	31
Spursil™ C18-EP	Modified with alkyl amide groups, columns for use with 100% organic to 100% aqueous mobile phases	<ul style="list-style-type: none"> Combine high purity silica with unique polar modification technology Unique selectivity and enhanced resolution Silanol shielding for excellent peak shape Improved water wettability and stable retention in highly aqueous mobile phase conditions Excellent retention for polar compounds Extended range pH stability Choose from a variety of selectivities and hardware formats 	Excellent selectivity for acids, bases, and polar compounds, especially phenols and amines. Compatible with 100% aqueous-phase composition	USP Code: L60 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.4 μmol/m ² pH Range: 1.5-10 Carbon Loading: 24% Endcapping: Yes	31
Diamonsil® C18	Universal reversed-phase columns	<ul style="list-style-type: none"> High efficiency Extended lifetime Outstanding selectivity Extreme resolution Excellent batch-to-batch reproducibility 	General purpose method development column	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 μm Pore Size: 100 Å Surface Area: 440 m ² /g Carbon Loading: 17% pH Range: 2-7.5 Endcapping: Yes	*
Diamonsil® C8	Universal reversed-phase columns	<ul style="list-style-type: none"> High efficiency Extended lifetime Outstanding selectivity Extreme resolution Excellent batch-to-batch reproducibility 	General purpose method development column. Less hydrophobic, therefore, less retentive than C18 for most analytes	USP Code: L7 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 μm Pore Size: 100 Å Surface Area: 440 m ² /g Carbon Loading: 10% pH Range: 2-7.5 Endcapping: Yes	*

Dikma HPLC / UHPLC Column	General Description	Primary Features	Applications	Specifications	Page
Diamondsil® AAA	Amino Acid Analysis (AAA) columns	<ul style="list-style-type: none"> High resolution and rapid analysis of 18 kinds of nature amino acids Outstanding selectivity and extreme resolution Excellent batch-to-batch reproducibility 	Suitable for the separation of amino acid	Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 µm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.93 µmol/m ² Carbon Loading: 27% pH Range: 1.5-9 Endcapping: Yes	*
Platisil™ C18	Wide pH range reversed-phase columns	<ul style="list-style-type: none"> Unique bonding technology prevents phase collapse, and allows stable retention in highly aqueous mobile phases Unique selectivity, excellent peak shape Enhanced retention of polar compounds High loadability pH range 1 - 11 Reduced silanol interactions and improved peak shape for basic analytes 	Separation of basic and acidic compounds in high and low pH conditions to manipulate selectivity	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 µm Pore Size: 100 Å Surface Area: 440 m ² /g pH Range: 1-11 Carbon Loading: 15% Endcapping: Yes	54
Platisil™ NH ₂ <small>NEW</small>	Aminopropyl modified silica phase	<ul style="list-style-type: none"> Aminopropyl modified silica phase for multi-mode chromatography (RP, NP, & IC) Improved phase ruggedness and stability Excellent retention for polar compounds such as sugars, oligosaccharides, sugar alcohols and other hydroxyl compounds, as well as DNA bases under RP conditions and vitamins A & D and hydrocarbons in the petroleum industry under NP conditions 	Separation of polar compounds such as sugars, oligosaccharides, sugar alcohols, and other hydroxyl compounds, as well as DNA bases, fat-soluble vitamin and hydrocarbons	USP Code: L8 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 µm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 3.2 µmol/m ² pH Range: 2-7.5 Carbon Loading: 7% Endcapping: No	*
Platisil™ CN <small>NEW</small>	Monomerically bonded cyanopropyl group	<ul style="list-style-type: none"> Monomerically bonded cyanopropyl group Exceptionally high surface coverage and alternative selectivity Low hydrophobicity for rapid elution of hydrophobic analytes More reproducible separations than silica for NP applications Multi-mode column (RP, NP, & HILIC) widens scope of selectivity High retention capacity for polar and unsaturated compounds Excellent reproducibility and superior stability Quick equilibration and less sensitivity to small changes of the water content in the mobile phase Suitable for the separation of ionizable compounds such as basic drugs, organic acids, and steroids 	Separation of ionizable compounds such as basic drugs, organic acids, and steroids as well as carboxyl, carbonyl, and amine containing compounds	USP Code: L10 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 µm Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 4.8 µmol/m ² pH Range: 1.5-7.5 Carbon Loading: 12% Endcapping: Yes	*
Platisil™ Silica <small>NEW</small>	High-purity silica packing	<ul style="list-style-type: none"> High loading capacity and strong mechanical stability due to exceptionally stable silica packing Minimal peak distortion Useful for separating compounds differing in the number and type of the functional groups Suitable for the separation of stereoisomers as well as neutral and weakly acidic compounds Excellent batch-to-batch reproducibility 	Ideal for the rapid separation of low molecular weight compounds that are soluble in organic solvents	USP Code: L3 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 µm Pore Size: 100 Å Surface Area: 440 m ² /g pH Range: 1.5-7.5 Endcapping: No	*

Dikma HPLC / UHPLC Column	General Description	Primary Features	Applications	Specifications	Page
Platisil™ PH ^{NEW}	Monomerically bonded phenyl group	<ul style="list-style-type: none"> • Monomerically bonded phenyl group • Alternative selectivity from π-π interactions • Exceptionally high surface coverage and superior stability • Lower hydrophobicity than C8 columns for rapid elution of hydrophobic analytes • Excellent resolution and reproducibility • Suitable for the separation of polar compounds, aromatic compounds, and isomers 	Suitable for the separation of polar compounds, aromatic compounds, and isomers	USP Code: L11 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 5 μ m Pore Size: 100 Å Surface Area: 440 m ² /g Phase Density: 4.1 μ mol/m ² Carbon Loading: 14% pH Range: 1.5-7.5 Endcapping: Yes	*
Bio-Bond™ C18	300 Å pore size silica C18 columns	<ul style="list-style-type: none"> • Direct scale-up to preparative material • Outstanding reproducibility, efficiency, and column lifetime 	Analyze and purify proteins, peptides, and biomolecules	USP Code: L1 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μ m Pore Size: 300 Å Surface Area: 100 m ² /g Phase Density: 3.7 μ mol/m ² pH Range: 2-8 Carbon Loading: 8% Endcapping: Yes	52
Bio-Bond™ C8	300 Å pore size silica C8 columns	<ul style="list-style-type: none"> • Direct scale-up to preparative material • Outstanding reproducibility, efficiency and column lifetime 	Analyze and purify proteins, peptides, and biomolecules	USP Code: L7 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μ m Pore Size: 300 Å Surface Area: 100 m ² /g Phase Density: 4.5 μ mol/m ² pH Range: 2-8 Carbon Loading: 5% Endcapping: Yes	52
Bio-Bond™ C4	300 Å pore size silica C4 columns	<ul style="list-style-type: none"> • Direct scale-up to preparative material • Outstanding reproducibility, efficiency and column lifetime 	Analyze and purify proteins, peptides, and biomolecules	USP Code: L26 Base Material: Silica Particle Shape: Spherical Purity: 99.999% Particle Size: 3, 5, 10 μ m Pore Size: 300 Å Surface Area: 100 m ² /g Phase Density: 4.4 μ mol/m ² pH Range: 2-8 Carbon Loading: 3% Endcapping: Yes	52

Dikma HPLC / UHPLC Columns Selection by Manufacturer

Choosing an HPLC column from different manufacturers can be a very difficult process. The Dikma alternative phases listed below are selected based on a combination of physical and chemical similarities as well as mode of retention. These alternatives are not guaranteed to provide the same retention or selectivity, but should be suitably similar in character to allow a similar or improved separation to be achieved with some method optimization. The user should refer to the individual phase information to ensure that the characteristics of the alternative match the requirements of their separation.

The following table is not complete in terms of manufacturer or products offered. Although every effort is made to ensure that the product information provided is as accurate as possible, some errors may occur in collation and transcription. We can not accept any responsibility for the use of the following information.

Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
ACE C18	ACT	3, 5, 10	100	300	15.5	Inspire™ C18	21
						Diamonsil® C18	*
ACE C8	ACT	3, 5, 10	100	300	9	Inspire™ C8	21
						Diamonsil® C8	*
ACE C18-300	ACT	3, 5, 10	300	100	9	Bio-Bond™ C18	52
ACE C8-300	ACT	3, 5, 10	300	100	5	Bio-Bond™ C8	52
ACE C4-300	ACT	3, 5, 10	300	100	2.6	Bio-Bond™ C4	52
HC-C18 (2)	Agilent	5	170	290	17	Inspire™ C18	21
						Diamonsil® C18	*
Polaris C18-Ether	Agilent	3, 5, 10	180	200	12.1	Spursil™ C18	31
Polaris C18-A	Agilent	3, 5, 10	180	200	13.8	Spursil™ C18-EP	31
Polaris NH ₂	Agilent	3, 5, 10	-	-	-	Platisil™ NH ₂ <small>NEW</small>	*
Pursuit C18	Agilent	3, 5, 10	200	200	12.9	Inspire™ C18	21
						Diamonsil® C18	*
Pursuit C8	Agilent	3, 5, 10	200	200	7.4	Inspire™ C8	21
						Diamonsil® C8	*
Pursuit UPS [®] C18	Agilent	1.9	100	350	21	Endeavorsil™ C18	5
Pursuit XRs C18	Agilent	3, 5, 10	100	440	22	Inspire™ C18	21
						Diamonsil® C18	*
Pursuit XRs C8	Agilent	3, 5, 10	100	440	15	Inspire™ C8	21
						Diamonsil® C8	*
Pursuit XRs ^{Ultra2.8} C18	Agilent	2.8	100	440	23.2	Leapsil™ C18	15
TC-C18 (2)	Agilent	5	170	290	12	Inspire™ C18	21
						Diamonsil® C18	*
Zorbax Bonus-RP	Agilent	3.5, 5	80	180	9.5	Spursil™ C18-EP	31
Zorbax Eclipse Plus C18	Agilent	3.5, 5	95	160	9	Inspire™ C18	21
						Diamonsil® C18	*
Zorbax Eclipse Plus C8	Agilent	3.5, 5	95	160	7	Inspire™ C8	21
						Diamonsil® C8	*
Zorbax Eclipse XDB-C18	Agilent	3.5, 5	80	180	10	Inspire™ C18	21
						Diamonsil® C18	*
Zorbax Eclipse XDB-C8	Agilent	3.5, 5	80	180	7.6	Inspire™ C8	21
						Diamonsil® C8	*
Zorbax Eclipse XDB-Phenyl	Agilent	3.5, 5	80	180	7.2	Platisil™ PH <small>NEW</small>	*
Zorbax 300Extend-C18	Agilent	3.5, 5	300	45	4	Bio-Bond™ C18	52
Zorbax RRHT Eclipse Plus C18	Agilent	1.8	95	160	9	Endeavorsil™ C18	5
Zorbax RRHT Eclipse XDB C18	Agilent	1.8	80	180	10	Endeavorsil™ C18	5
Zorbax RRHD SB-C18	Agilent	1.8	80	180	10	Endeavorsil™ C18	5
Zorbax SB-Aq	Agilent	3.5, 5	80	180	-	Spursil™ C18	31
Zorbax SB-C18	Agilent	3.5, 5	80	180	10	Inspire™ C18	21
						Diamonsil® C18	*
Zorbax SB-C8	Agilent	3.5, 5	80	180	5.5	Inspire™ C8	21
						Diamonsil® C8	*
Zorbax SB-CN	Agilent	3.5, 5	80	180	4	Platisil™ CN <small>NEW</small>	*
Zorbax SB-Phenyl	Agilent	3.5, 5	80	180	5.5	Platisil™ PH <small>NEW</small>	*
Zorbax 300SB-C18	Agilent	3.5, 5	300	45	2.8	Bio-Bond™ C18	52
Zorbax 300SB-C8	Agilent	3.5, 5	300	45	1.5	Bio-Bond™ C8	52
Inertsil C8	GL Sciences	5	150	320	10.5	Inspire™ C8	21
						Diamonsil® C8	*
Inertsil C8-3	GL Sciences	3, 5	100	450	9	Inspire™ C8	21
						Diamonsil® C8	*
Inertsil CN-3	GL Sciences	5	100	450	14	Platisil™ CN <small>NEW</small>	*

Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
Inertsil Diol	GL Sciences	5	100	450	20	Inspire™ Diol <i>NEW</i>	*
Inertsil NH ₂	GL Sciences	5	100	450	8	Platisil™ NH ₂ <i>NEW</i>	*
Inertsil ODS-3	GL Sciences	3, 5	100	450	15	Inspire™ C18	21
						Diamonsil® C18	*
Inertsil ODS-3V	GL Sciences	5	100	450	15	Inspire™ C18	21
						Diamonsil® C18	*
Inertsil Ph-3	GL Sciences	3, 5	100	450	9.5	Platisil™ PH <i>NEW</i>	*
Inertsil Sil-100A	GL Sciences	3, 5	100	450	-	Platisil™ Silica <i>NEW</i>	*
Inertsil WP300 C18	GL Sciences	5	300	150	9	Bio-Bond™ C18	52
Inertsil WP300 C8	GL Sciences	5	300	150	4	Bio-Bond™ C8	52
Inertsil WP300 C4	GL Sciences	5	300	150	3	Bio-Bond™ C4	52
Alltima HP C18	Grace	3, 5	190	200	12	Inspire™ C18	21
						Diamonsil® C18	*
Alltima HP C8	Grace	3, 5	190	200	8	Inspire™ C8	21
						Diamonsil® C8	*
Alltima HP C18 Amide	Grace	3, 5	190	200	12	Spursil™ C18-EP	31
Alltima HP C18 AQ	Grace	3, 5	100	450	20	Spursil™ C18	31
Alltima HP C18 HiLoad	Grace	3, 5	100	450	24	Inspire™ C18	21
						Diamonsil® C18	*
Alltima HP CN	Grace	3, 5	190	200	4	Platisil™ CN <i>NEW</i>	*
Alltima HP Silica	Grace	3, 5	100	450	-	Platisil™ Silica <i>NEW</i>	*
Alltima Phenyl	Grace	3, 5	100	340	7.5	Platisil™ PH <i>NEW</i>	*
DENALI 238DE C18	Grace	3, 5, 10	120	280-340	20	Inspire™ C18	21
						Diamonsil® C18	*
Genesis 120C18	Grace	3	120	300	18	Inspire™ C18	21
						Diamonsil® C8	*
						Inspire™ C8	21
Genesis 120C8	Grace	3	120	300	11	Inspire™ C8	21
						Diamonsil® C8	*
Genesis CN	Grace	3, 5, 10	120	300	7	Platisil™ CN <i>NEW</i>	*
Genesis Silica	Grace	3, 5, 10	120	300	-	Platisil™ Silica <i>NEW</i>	*
Vydac 201SP C18	Grace	3, 5, 10	90	250-350	13	Inspire™ C18	21
						Diamonsil® C18	*
Vydac 208SP C8	Grace	5, 10	90	250-350	9	Inspire™ C8	21
						Diamonsil® C8	*
Vydac 201TP C18	Grace	5, 10	300	70-90	8	Bio-Bond™ C18	52
Vydac 202TP C18	Grace	3, 5, 10	300	60-90	9	Bio-Bond™ C18	52
Vydac 208TP C8	Grace	3, 5, 10	300	60-110	5	Bio-Bond™ C8	52
Vydac 214TP C4	Grace	3, 5, 10	300	60-110	3	Bio-Bond™ C4	52
Vydac 218TP C18	Grace	3, 5, 10	300	60-110	8	Bio-Bond™ C18	52
Vydac 238TP C18	Grace	3, 5, 10	300	60-110	4	Bio-Bond™ C18	52
NUCLEODUR C18 ec	Macherey-Nagel	3, 5, 10	110	340	17.5	Inspire™ C18	21
						Diamonsil® C18	*
NUCLEODUR C18 Gravity	Macherey-Nagel	1,8	110	340	18	Endeavorsil™ C18	5
		3, 5				Inspire™ C18	21
						Diamonsil® C18	*
NUCLEODUR C18 Pyramid	Macherey-Nagel	3, 5	110	340	14	Spursil™ C18	31
Nucleosil 100 C18	Macherey-Nagel	3, 5, 10	100	350	15	Inspire™ C18	21
						Diamonsil® C18	*
Nucleosil 100 C18 AB	Macherey-Nagel	5	100	350	25	Inspire™ C18	21
						Diamonsil® C18	*
Nucleosil 100 C8	Macherey-Nagel	5, 10	100	350	8.5	Inspire™ C8	21
						Diamonsil® C8	*
Nucleosil 100 CN	Macherey-Nagel	5, 10	100	350	5	Platisil™ CN <i>NEW</i>	*
Nucleosil 100 NH ₂	Macherey-Nagel	3, 5, 10	100	350	3.5	Platisil™ NH ₂ <i>NEW</i>	*
Nucleosil 300 C18	Macherey-Nagel	5, 10	300	100	6.5	Bio-Bond™ C18	52
Nucleosil 300 C4	Macherey-Nagel	5, 10	300	100	2	Bio-Bond™ C4	52
Nucleosil 300 C8	Macherey-Nagel	5, 10	300	100	3	Bio-Bond™ C8	52
LiChrospher CN	Merck	5	100	350	6.6	Platisil™ CN <i>NEW</i>	*
LiChrospher Diol	Merck	5	100	350	-	Inspire™ Diol <i>NEW</i>	*
LiChrospher NH ₂	Merck	5	100	350	5	Platisil™ NH ₂ <i>NEW</i>	*
LiChrospher RP-18	Merck	5, 10	100	350	21	Inspire™ C18	21
						Diamonsil® C18	*
LiChrospher RP-18e	Merck	5, 10	100	350	21.6	Inspire™ C18	21
						Diamonsil® C18	*
LiChrospher RP-8	Merck	5, 10	100	350	12.5	Inspire™ C8	21
						Diamonsil® C8	*

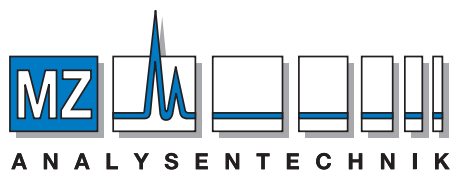
Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
LiChrospher RP-8e	Merck	5, 10	100	350	13	Inspire™ C8	21
						Diamonsil® C8	*
Purospher RP-18 endcapped	Merck	5	90	480	18	Inspire™ C18	21
						Diamonsil® C18	*
Purospher STAR RP-8 endcapped	Merck	3, 5	120	330	11.2	Inspire™ C8	21
						Diamonsil® C8	*
Purospher STAR RP-18 endcapped	Merck	2, 3, 5	120	330	17	Inspire™ C18	21
						Diamonsil® C18	*
AQUA C18	Phenomenex	3, 5, 10	125	320	15	Spursil™ C18	31
Columbus C18	Phenomenex	5	110	375	19	Inspire™ C18	21
						Diamonsil® C18	*
Columbus C8	Phenomenex	5	110	375	13	Inspire™ C8	21
						Diamonsil® C8	*
Gemini C18	Phenomenex	3, 5, 10	110	375	14	Inspire™ C18	21
						Diamonsil® C18	*
Gemini C6-Phenyl	Phenomenex	3, 5	110	375	12	Platisil™ PH NEW	*
Jupiter C18	Phenomenex	3, 5, 10	300	170	13.3	Bio-Bond™ C18	52
Jupiter C4	Phenomenex	5, 10	300	170	5	Bio-Bond™ C4	52
Kinetex C18	Phenomenex	2.6	100	200	12	Leapsil™ C18	15
Kinetex XB-C18	Phenomenex	2.6	100	200	10	Leapsil™ C18	15
Kinetex C18	Phenomenex	1.7	100	200	12	Endeavorsil™ C18	5
Kinetex XB-C18	Phenomenex	1.7	100	200	10	Endeavorsil™ C18	5
Luna C18 (2)	Phenomenex	2.5	100	400	17.5	Leapsil™ C18	15
		3, 5, 10				Inspire™ C18	21
						Diamonsil® C18	*
Luna C8 (2)	Phenomenex	3, 5, 10	100	400	13.5	Inspire™ C8	21
						Diamonsil® C8	*
Luna CN	Phenomenex	3, 5, 10	100	400	7	Platisil™ CN NEW	*
Luna HILIC	Phenomenex	3, 5	200	200	5.7	Inspire™ HILIC NEW	*
Luna NH ₂	Phenomenex	3, 5, 10	100	400	9.5	Platisil™ NH ₂ NEW	*
Luna Phenyl-Hexyl	Phenomenex	3, 5, 10	100	400	17.5	Platisil™ PH NEW	*
Luna Silica (2)	Phenomenex	3, 5, 10 (2)	100	400	-	Platisil™ Silica NEW	*
Prodigy C8	Phenomenex	5	150	310	12.6	Inspire™ C8	21
						Diamonsil® C8	*
Prodigy ODS-2	Phenomenex	5	150	310	18.5	Inspire™ C18	21
						Diamonsil® C18	*
Prodigy ODS-3	Phenomenex	3, 5, 10	100	450	15.5	Inspire™ C18	21
						Diamonsil® C18	*
Prodigy ODS-3V	Phenomenex	3, 5	100	450	15.5	Inspire™ C18	21
						Diamonsil® C18	*
Synergi Fusion-RP	Phenomenex	4, 10	80	475	12	Spursil™ C18-EP	31
Synergi Hydro-RP	Phenomenex	4, 10	80	475	19	Spursil™ C18	31
Ultracarb C8	Phenomenex	5	60	550	14	Inspire™ C8	21
						Diamonsil® C8	*
Pinnacle C18	Restek	3, 5	120	170	10	Inspire™ C18	21
						Diamonsil® C18	*
Pinnacle DB C18	Restek	1.9	140	-	11	Endeavorsil™ C18	5
		3, 5				Inspire™ C18	21
						Diamonsil® C18	*
Pinnacle DB C8	Restek	3, 5	140	-	6	Inspire™ C8	21
						Diamonsil® C8	*
Pinnacle II Cyano	Restek	3, 5	110	-	4	Platisil™ CN NEW	*
Pinnacle II Amino	Restek	3, 5	110	-	2	Platisil™ NH ₂ NEW	*
Pinnacle II Silica	Restek	3, 5	110	-	-	Platisil™ Silica NEW	*
Pinnacle II Phenyl	Restek	3, 5	110	-	6	Platisil™ PH NEW	*
Ultra Aromax	Restek	3, 5	100	-	17	Platisil™ PH NEW	*
Viva C18	Restek	3, 5	300	-	9	Bio-Bond™ C18	52
Viva C4	Restek	5	300	-	3.5	Bio-Bond™ C4	52
Viva C8	Restek	5	300	-	5	Bio-Bond™ C8	52
Ascentis C18	Supelco	3, 5, 10	100	450	25	Inspire™ C18	21
						Diamonsil® C18	*
Ascentis C8	Supelco	3, 5, 10	100	450	15	Inspire™ C8	21
						Diamonsil® C8	*

Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
Ascentis RP-Amide	Supelco	3, 5, 10	100	450	19.5	Spursil™ C18-EP	31
Discovery BIO Wide Pore C18	Supelco	3, 5, 10	300	100	9.2	Bio-Bond™ C18	52
Discovery BIO Wide Pore C8	Supelco	3, 5, 10	300	100	5	Bio-Bond™ C8	52
Discovery C18	Supelco	5	180	200	12	Inspire™ C18	21
						Diamonsil® C18	*
Discovery C8	Supelco	5	180	200	7.5	Inspire™ C8	21
						Diamonsil® C8	*
Discovery RP-Amide C16	Supelco	5	180	200	11	Spursil™ C18-EP	31
Supelcosil ABZ+Plus	Supelco	3, 5	120	170	12	Spursil™ C18-EP	31
Supelcosil LC-18	Supelco	3, 5	120	170	11	Inspire™ C18	21
						Diamonsil® C18	*
Supelcosil LC-8	Supelco	3, 5	120	170	6	Inspire™ C8	21
						Diamonsil® C8	*
Supelcosil LC-18-DB	Supelco	3, 5	120	170	11	Inspire™ C18	21
						Diamonsil® C18	*
Supelcosil LC-ABZ	Supelco	5	120	170	12	Spursil™ C18-EP	31
Supelcosil LC-CN	Supelco	3, 5	120	170	4	Platisil™ CN <small>NEW</small>	*
Supelcosil LC-NH ₂	Supelco	3, 5	120	170	3	Platisil™ NH ₂ <small>NEW</small>	*
Supelcosil LC-Si	Supelco	3, 5	120	170	-	Platisil™ Silica <small>NEW</small>	*
Acclaim 120 C18	Thermo Scientific	3, 5	120	300	18	Inspire™ C18	21
						Diamonsil® C18	*
Acclaim 300 C18	Thermo Scientific	3, 5	300	100	8	Bio-Bond™ C18	52
AQUASIL C18	Thermo Scientific	3, 5	100	310	12	Spursil™ C18	31
BetaBasic 18	Thermo Scientific	3, 5	150	200	13	Inspire™ C18	21
						Diamonsil® C18	*
BetaBasic 8	Thermo Scientific	3, 5	150	200	7	Inspire™ C8	21
						Diamonsil® C8	*
BioBasic 18	Thermo Scientific	5	300	-	9	Bio-Bond™ C18	52
BioBasic 8	Thermo Scientific	5	300	-	5	Bio-Bond™ C8	52
BioBasic 4	Thermo Scientific	5	300	200	4	Bio-Bond™ C4	52
BETASIL C18	Thermo Scientific	3, 5	100	310	20	Inspire™ C18	21
						Diamonsil® C18	*
BETASIL C8	Thermo Scientific	3, 5	100	310	12	Inspire™ C8	21
						Diamonsil® C8	*
BETASIL Diol 100	Thermo Scientific	5	100	310	6	Inspire™ Diol <small>NEW</small>	*
Hypersil BDS C18	Thermo Scientific	3, 5	130	170	11	Inspire™ C18	21
						Diamonsil® C18	*
Hypersil BDS C8	Thermo Scientific	3, 5	130	170	7	Inspire™ C8	21
						Diamonsil® C8	*
Hypersil GOLD Amino	Thermo Scientific	3, 5	175	220	2	Platisil™ NH ₂ <small>NEW</small>	*
Hypersil GOLD aQ	Thermo Scientific	3, 5	175	220	12	Spursil™ C18	31
Hypersil GOLD C18	Thermo Scientific	1.9	175	220	10	Endeavorsil™ C18	5
		3, 5				Inspire™ C18	21
		Diamonsil® C18				*	
Hypersil GOLD C8	Thermo Scientific	3, 5	175	220	8	Inspire™ C8	21
						Diamonsil® C8	*
Hypersil GOLD CN	Thermo Scientific	3, 5	175	220	4	Platisil™ CN <small>NEW</small>	*
Hypersil GOLD Phenyl	Thermo Scientific	3, 5	175	220	8.5	Platisil™ PH <small>NEW</small>	*
Hypersil GOLD Silica	Thermo Scientific	3, 5	175	220	-	Platisil™ Silica <small>NEW</small>	*
Hypersil MOS (C8)	Thermo Scientific	3, 5	120	170	6.5	Inspire™ C8	21
						Diamonsil® C8	*
Hypersil MOS-2 (C8)	Thermo Scientific	5	120	170	6.5	Inspire™ C8	21
						Diamonsil® C8	*
Hypersil ODS (C18)	Thermo Scientific	3, 5	120	170	10	Inspire™ C18	21
						Diamonsil® C18	*
Hypersil ODS-2 (C18)	Thermo Scientific	3, 5	80	220	11	Inspire™ C18	21
						Diamonsil® C18	*
Hypersi BDS Phenyl	Thermo Scientific	3, 5	130	170	5	Platisil™ PH <small>NEW</small>	*
HyPURITY ADVANCE	Thermo Scientific	5	190	200	10	Spursil™ C18-EP	31
HyPURITY AQUASTAR	Thermo Scientific	5	190	200	10	Spursil™ C18	31
HyPURITY C18	Thermo Scientific	5	190	200	13	Inspire™ C18	21
						Diamonsil® C18	*
HyPURITY C8	Thermo Scientific	5	190	200	8	Inspire™ C8	21
						Diamonsil® C8	*
Syncronis aQ	Thermo Scientific	5	100	320	19	Spursil™ C18	31

Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
Synchronis C18	Thermo Scientific	1.7	100	320	16	Endeavorsil™ C18	5
		5				Inspire™ C18	21
						Diamonsil® C18	*
Synchronis C8	Thermo Scientific	5	100	320	10	Inspire™ C8	21
						Diamonsil® C8	*
TSKgel Octyl-80Ts	Tosoh	5	80	200	11	Inspire™ C8	21
TSKgel ODS-80TM	Tosoh	5, 10	80	200	15	Diamonsil® C8	*
						Inspire™ C18	21
TSKgel ODS-120A	Tosoh	5, 10	120	200	20	Diamonsil® C18	*
						Inspire™ C18	21
TSKgel ODS-120T	Tosoh	5, 10	120	200	22	Diamonsil® C18	*
						Inspire™ C18	21
TSKgel ODS-100V	Tosoh	3, 5	100	450	15	Diamonsil® C18	*
						Inspire™ C18	21
TSKgel ODS-100Z	Tosoh	3, 5	100	450	20	Diamonsil® C18	*
						Inspire™ C18	21
TSKgel Super ODS	Tosoh	2	140	-	8	Endeavorsil™ C18	5
ACQUITY UPLC BEH C18	Waters	1.7	130	185	18	Endeavorsil™ C18	5
ACQUITY UPLC CSH C18	Waters	1.7	130	185	15	Endeavorsil™ C18	5
ACQUITY UPLC HSS C18	Waters	1.8	100	230	15	Endeavorsil™ C18	5
ACQUITY UPLC HSS C18SB	Waters	1.8	100	230	8.5	Endeavorsil™ C18	5
ACQUITY UPLC HSS T3	Waters	1.8	100	230	11	Endeavorsil™ C18	5
Atlantis dC18	Waters	3, 5, 10	100	330	12	Inspire™ C18	21
						Diamonsil® C18	*
Delta-Pak 300 Å C18	Waters	5	300	125	7	Bio-Bond™ C18	52
Delta-Pak 300 Å C4	Waters	5	300	125	3	Bio-Bond™ C4	52
Spherisorb C8	Waters	3, 5, 10	80	220	5.8	Inspire™ C8	21
						Diamonsil® C8	*
Spherisorb CN	Waters	3, 5, 10	80	220	3.1	Platisil™ CN <small>NEW</small>	*
Spherisorb NH ₂	Waters	3, 5, 10	80	220	1.9	Platisil™ NH ₂ <small>NEW</small>	*
Spherisorb ODS1	Waters	3, 5, 10	80	220	6.2	Inspire™ C18	21
						Diamonsil® C18	*
Spherisorb ODS2	Waters	3, 5, 10	80	220	11.5	Inspire™ C18	21
						Diamonsil® C18	*
Spherisorb ODSB	Waters	5	80	220	11.5	Inspire™ C18	21
						Diamonsil® C18	*
Spherisorb Phenyl	Waters	3, 5, 10	80	220	2.5	Platisil™ PH <small>NEW</small>	*
SunFire C18	Waters	2.5	100	340	16	Leapsil™ C18	15
		3.5, 5, 10				Inspire™ C18	21
						Diamonsil® C18	*
SunFire C8	Waters	3.5, 5, 10	100	340	12	Inspire™ C8	21
						Diamonsil® C8	*
Symmetry 300 C18	Waters	3.5, 5	300	110	8.5	Bio-Bond™ C18	52
Symmetry 300 C4	Waters	3.5, 5	300	110	2.8	Bio-Bond™ C4	52
Symmetry C18	Waters	3.5, 5, 7	100	335	19	Inspire™ C18	21
						Diamonsil® C18	*
Symmetry C8	Waters	3.5, 5, 7	100	335	12	Inspire™ C8	21
						Diamonsil® C8	*
SymmetryShield RP18	Waters	3.5, 5, 7	100	335	17	Spursil™ C18-EP	31
XBridge BEH130 C18	Waters	3.5, 5, 10	130	185	18	Inspire™ C18	21
						Diamonsil® C18	*
XBridge BEH300 C18	Waters	3.5, 5, 10	300	90	12	Bio-Bond™ C18	52
XBridge BEH300 C4	Waters	3.5	300	90	8	Bio-Bond™ C4	52
XBridge C18	Waters	2.5	130	185	18	Leapsil™ C18	15
		3.5, 5, 10				Inspire™ C18	21
						Diamonsil® C18	*
XBridge C8	Waters	3.5, 5, 10	130	185	13	Inspire™ C8	21
						Diamonsil® C8	*
Xbridge HILIC	Waters	3.5, 5	130	185	-	Inspire™ HILIC <small>NEW</small>	*
XBridge Shield RP18	Waters	3.5, 5, 10	130	185	17	Spursil™ C18-EP	31
						Leapsil™ C18	15
XSelect CSH C18	Waters	2.5	130	185	15	Inspire™ C18	21
		3.5, 5				Diamonsil® C18	*

Phase	Manufacturer	Particle Size (µm)	Pore Size (Å)	Area (m ² /g)	% C	Dikma Recommended Alternative	Page
Xselect HSS C18	Waters	2.5	100	230	15	Leapsil™ C18	15
		3.5, 5				Inspire™ C18	21
						Diamonsil® C18	*
Xselect HSS C18SB	Waters	2.5	100	230	8	Leapsil™ C18	15
		3.5, 5				Inspire™ C18	21
						Diamonsil® C18	*
Xselect HSS T3	Waters	2.5	100	230	11	Leapsil™ C18	15
		3.5, 5				Inspire™ C18	21
						Diamonsil® C18	*
XTerra MS C18	Waters	2.5	125	180	15.5	Leapsil™ C18	15
		3.5, 5, 10				Inspire™ C18	21
						Diamonsil® C18	*
XTerra MS C8	Waters	3.5, 5, 10	125	180	12	Inspire™ C8	21
						Diamonsil® C8	*
XTerra Phenyl	Waters	3.5, 5	125	180	12	Platisil™ PH <small>NEW</small>	*
XTerra RP18	Waters	3.5, 5, 10	125	180	15.5	Spursil™ C18-EP	31
µBondapak C18	Waters	10	125	330	10	Inspire™ C18	21
						Diamonsil® C18	*
						Luster™ C18	56
µBondapak CN	Waters	10	125	330	6	Platisil™ CN <small>NEW</small>	*
µBondapak NH ₂	Waters	10	125	330	3.5	Platisil™ NH ₂ <small>NEW</small>	*
Partisil C8	Whatman	5, 10	85	350	8.5	Inspire™ C8	21
						Diamonsil® C8	*
Partisil ODS	Whatman	5, 10	85	350	5	Inspire™ C18	21
						Diamonsil® C18	*
Partisil ODS-2	Whatman	5, 10	85	350	16	Inspire™ C18	21
						Diamonsil® C18	*
Partisil ODS-3	Whatman	5, 10	85	350	10.5	Inspire™ C18	21
						Diamonsil® C18	*
YMCbasic	YMC	3, 5	-	-	7	Inspire™ C8	21
						Diamonsil® C8	*
YMC-Pack C8	YMC	3, 5, 10	120	-	10	Inspire™ C8	21
			300	-	4	Diamonsil® C8	*
YMC-Pack CN	YMC	3, 5, 10	120	300	7	Bio-Bond™ C8	52
YMC-Pack Diol-NP	YMC	5	120	300	-	Platisil™ CN <small>NEW</small>	*
YMC-Pack NH ₂	YMC	5	120	-	-	Inspire™ Diol <small>NEW</small>	*
YMC-Pack ODS-AQ	YMC	3, 5, 10	120	-	14	Platisil™ NH ₂ <small>NEW</small>	*
YMC-Pack ODS-A	YMC	3, 5, 10	120	-	17	Spursil™ C18	31
			300	-	7	Inspire™ C18	21
YMC-Pack Phenyl	YMC	5				Diamonsil® C18	*
						Bio-Bond™ C18	52
YMC-Pack Pro C18	YMC	3, 5, 10	120	-	16	Platisil™ PH <small>NEW</small>	*
YMC-Pack Sil	YMC	3, 5	120	-	-	Inspire™ C18	21
						Diamonsil® C18	*
						Platisil™ Silica <small>NEW</small>	*

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