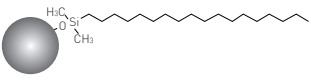


UHPLC Column

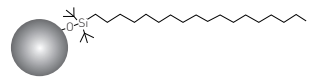
Welch also offers Ultisil® UHPLC (1.8 µm) columns. With high column efficiency and good lot-to-lot reproducibility, Ultisil® UHPLC can generate high quality data, decreasing the probability of repeated sample analyses while reducing the consumption of solvent at the same time. Ultisil® UHPLC series offer a variety of bonded phases, specified guard columns and pre-columns for the users to design and realize faster and more environmentally friendly chromatography applications with higher resolution.

- Ultra resolution: same resolution as or better than that of conventional column which has more packing materials
- Ultra speed: UHPLC offers more information per unit time and higher speed owing to its smaller particles.
- Sensitivity: higher N, narrower peak width (W), higher peak height. The system sensitivity of 1.8 µm UHPLC is 70% and 40% higher than that of conventional column of 5µm and 3.5µm packings, respectively.

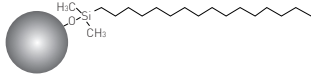
Ultisil® UHPLC XB-C18

Structural Formula	
pH Range	1.5-10.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	17(120 Å)
USP List	L1
Endcapped	Yes

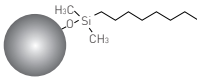
Ultisil® UHPLC LP-C18

Structural Formula	
pH Range	0.5-8.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	10(120 Å)
USP List	L1
Endcapped	No

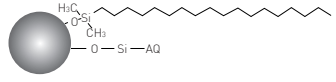
Xtimate® UHPLC C18

Structural Formula	
pH Range	1.0-12.5
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	14(120 Å)
USP List	L1
Endcapped	Yes

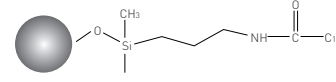
Ultisil® UHPLC XB-C8

Structural Formula	
pH Range	1.5-10.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	12(120 Å)
USP List	L7
Endcapped	Yes

Ultisil® UHPLC AQ-C18

Structural Formula	
pH Range	1.5-10.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	12(120 Å)
USP List	L1
Endcapped	Yes

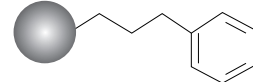
Ultisil® UHPLC Polar-RP

Structural Formula	
pH Range	1.5-10.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	18(120 Å)
USP List	L1
Endcapped	Yes

Ultisil® UHPLC HILIC

Structural Formula	
pH Range	2.0-8.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	L3
Endcapped	No

Ultisil® UHPLC XB-Phenyl

Structural Formula	
pH Range	1.5-10.0
Particle Size	1.8 µm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	12(120 Å)
USP List	L11
Endcapped	Yes



Ordering Information

1.8 µm UHPLC column

Bonded phase	Column ID (mm)	Column Length (mm)					Guard Cartridge	Guard Column
		30	50	75	100	150		
Ultisil XB-C18	2.1	H00201-11009	H00201-11010	H00201-11011	H00201-11012	H00201-11014	HU808-201-25	H00808-01109
	3.0	H00201-11018	H00201-11019	H00201-11020	H00201-11021	H00201-11023	HU808-201-25	H00808-01109
	4.6	H00201-11036	H00201-11037	H00201-11038	H00201-11039	H00201-11041	HU808-201-45	H00808-01109
Ultisil XB-C8	2.1	H00202-11009	H00202-11010	H00202-11011	H00202-11012	H00202-11014	HU808-202-25	H00808-01109
	3.0	H00202-11018	H00202-11019	H00202-11020	H00202-11021	H00202-11023	HU808-202-25	H00808-01109
	4.6	H00202-11036	H00202-11037	H00202-11038	H00202-11039	H00202-11041	HU808-202-45	H00808-01109
Ultisil AQ-C18	2.1	H00207-11009	H00207-11010	H00207-11011	H00207-11012	H00207-11014	HU808-207-25	H00808-01109
	3.0	H00207-11018	H00207-11019	H00207-11020	H00207-11021	H00207-11023	HU808-207-25	H00808-01109
	4.6	H00207-11036	H00207-11037	H00207-11038	H00207-11039	H00207-11041	HU808-207-45	H00808-01109
Ultisil XB-Phenyl	2.1	H00203-11009	H00203-11010	H00203-11011	H00203-11012	H00203-11014	HU808-203-25	H00808-01109
	3.0	H00203-11018	H00203-11019	H00203-11020	H00203-11021	H00203-11023	HU808-203-25	H00808-01109
	4.6	H00203-11036	H00203-11037	H00203-11038	H00203-11039	H00203-11041	HU808-203-45	H00808-01109
Ultisil LP-C18	2.1	H00208-11009	H00208-11010	H00208-11011	H00208-11012	H00208-11014	HU808-208-25	H00808-01109
	3.0	H00208-11018	H00208-11019	H00208-11020	H00208-11021	H00208-11023	HU808-208-25	H00808-01109
	4.6	H00208-11036	H00208-11037	H00208-11038	H00208-11039	H00208-11041	HU808-208-45	H00808-01109
Ultisil Polar-RP	2.1	H00215-11009	H00215-11010	H00215-11011	H00215-11012	H00215-11014	HU808-215-25	H00808-01109
	3.0	H00215-11018	H00215-11019	H00215-11020	H00215-11021	H00215-11023	HU808-215-25	H00808-01109
	4.6	H00215-11036	H00215-11037	H00215-11038	H00215-11039	H00215-11041	HU808-215-45	H00808-01109
Ultisil HILIC	2.1	H00200-11009	H00200-11010	H00200-11011	H00200-11012	H00200-11014	HU808-209-25	H00808-01109
	3.0	H00200-11018	H00200-11019	H00200-11020	H00200-11021	H00200-11023	HU808-209-25	H00808-01109
	4.6	H00200-11036	H00200-11037	H00200-11038	H00200-11039	H00200-11041	HU808-209-45	H00808-01109
Xtimate C18	2.1	00101-01009	00101-01010	00101-01011	00101-01012	00101-01014	U808-101-25	00808-01109
	3.0	00101-01018	00101-01019	00101-01020	00101-01021	00101-01023	U808-101-25	00808-01109
	4.6	00101-01036	00101-01037	00101-01038	00101-01039	00101-01041	U808-101-45	00808-01109

Don't see your needed size or format? Contact Welch or your local distributor for other dimensions.

Inline Filter for UHPLC

	P/N	Description
	00808-01221	UltraShield inline Filter, SS, 0.5 µm stainless steel frit, 15000 psi
	00808-01222	Direct Connect Precolumn inline Filter; with 0.2µm Replacement Frits×5, 18000 psi
	00808-UF020	Replaceable frits (0.2 µm)