

# Ultisil® Mixed Mode Phase(MM C18/SCX&MM NH<sub>2</sub>/CN)

Ultisil® Mixed mode phase, whose selectivity is totally different from conventional reversed phase, is a new packing material that is the development trend of liquid chromatography. There are three modes in the mixed mode phase: reversed phase/anion exchange, reversed phase/cation exchange, reversed phase/amphoteric compound.

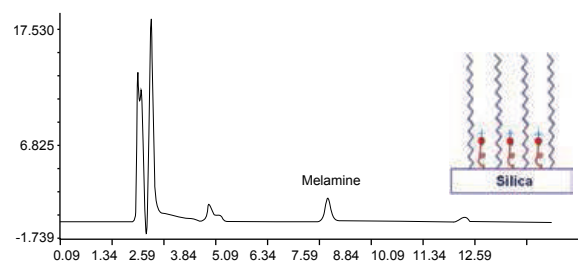
## Ultisil® MM C18/SCX

pH Range	2.0-8.0
Particle Size	5 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	/
Endcapped	N/A

## Ultisil® MM NH<sub>2</sub>/CN

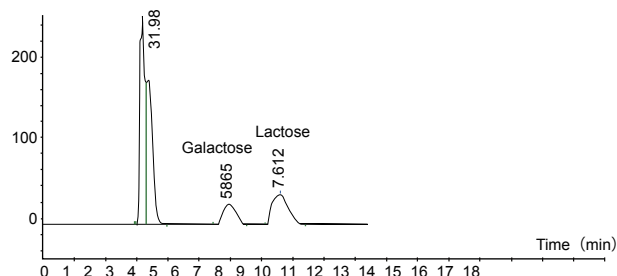
pH Range	2.0-8.0
Particle Size	5 µm
Surface Area(m <sup>2</sup> /g)	
Carbon Loading(%)	
USP List	
Endcapped	

## Analysis of Melamine



Column:	Ultisil® MM C18/SCX, 4.6 ×250 mm, 5 µm
Mobile Phase:	0.01 M NH <sub>4</sub> AC(pH3.0)/acetonitrile=62/38
Detector:	240 nm
Temperature:	40°C
Flow Rate:	1.0 mL/min
Injection Volume:	20 µL

## Separation of Lactose and Galactose



Column:	Ultisil® MM NH <sub>2</sub> /CN, 4.6 ×250 mm, 5 µm
Mobile Phase:	Acetonitrile/water =70/30
Detector:	RID (40°C)
Temperature:	45°C
Flow Rate:	1.0 mL/min
Injection Volume:	20 µL

## Ultisil® MM C18/SCX

Particle size	Column ID (mm)	Column Length (mm)										Guard Cartridge	Cartridge holder
		30	33	50	75	100	125	150	200	250	300		
5 µm 120 Å	2.1	H00235-31009	H09235-31009	H00235-31010	H00235-31011	H00235-31012	H00235-31013	H00235-31014	H00235-31015	H00235-31016	-	H00808-24032	00808-01107
	3.0	H00235-31018	-	H00235-31019	H00235-31020	H00235-31021	H00235-31022	H00235-31023	H00235-31024	H00235-31025	-	H00808-24032	00808-01107
	4.0	H00235-31027	-	H00235-31028	H00235-31029	H00235-31030	H00235-31031	H00235-31032	H00235-31033	H00235-31034	H00235-31035	H00808-04032	00808-01101
	4.6	H00235-31036	H11235-31036	H00235-31037	H00235-31038	H00235-31039	H00235-31040	H00235-31041	H00235-31042	H00235-31043	H00235-31044	H00808-04032	00808-01101

## Ultisil® MM NH<sub>2</sub>/CN

Particle size	Column ID (mm)	Column Length (mm)										Guard Cartridge	Cartridge holder
		30	33	50	75	100	125	150	200	250	300		
5 µm 120 Å	2.1	H00243-31009	H09243-31009	H00243-31010	H00243-31011	H00243-31012	H00243-31013	H00243-31014	H00243-31015	H00243-31016	-	H00808-24041	00808-01107
	3.0	H00243-31018	-	H00243-31019	H00243-31020	H00243-31021	H00243-31022	H00243-31023	H00243-31024	H00243-31025	-	H00808-24041	00808-01107
	4.0	H00243-31027	-	H00243-31028	H00243-31029	H00243-31030	H00243-31031	H00243-31032	H00243-31033	H00243-31034	H00243-31035	H00808-04037	00808-01101
	4.6	H00243-31036	H11243-31036	H00243-31037	H00243-31038	H00243-31039	H00243-31040	H00243-31041	H00243-31042	H00243-31043	H00243-31044	H00808-04037	00808-01101

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