



FlexFire

Columns for UHPLC and HPLC



FlexFire, delivers supreme durability and maximum flexibility.

■ Provide total solution in 1 series

FlexFire’s value and performance lies in its high-quality silica, the lifeblood at the heart of its creation. Applying 40 years of manufacturing expertise and an upgraded production system, Develosil has upgraded to the highest grade uniform, high-density, low-metal porous silica. With improved endcapping technology Develosil withstands the harshest of conditions and delivers use after use, beyond the highest expectations.

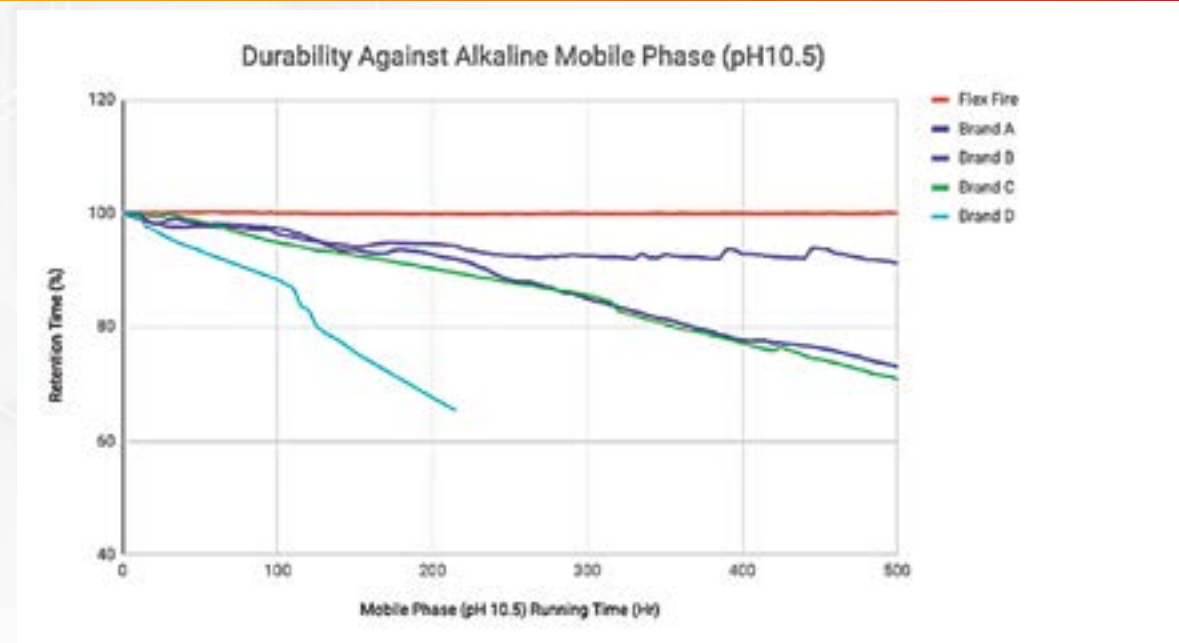
With its availability in multiple functional groups and particle sizes, FlexFire is carefully designed for scalability and transferability to have your whole operation covered, from R&D to QC.

■ Specifications and Line Up

Property	Particle Size	Surface Area	Porous Size	Porous Volume	Carbon Load	pH Range	Working Temp
C18	1.6 µm	340 m ² /g	11 nm	1.0 mL/g	22%	pH1-10	<60°C
C30					11%	pH1-10	
C8	2.6 µm						
C1	5 µm						
HILIC							
Wide pore, low carbon C18, CN, PH, C4, NH2 columns will be introduced soon.							

Particle Size	Max Pressure		
1.6 µm	11600 psi	80 MPa	800 bar
2.6 µm	8700 psi	60 MPa	600 bar
5 µm	4350 psi	30 MPa	300 bar

◆ Durability



Column Types	Particle Size (µm)
Develosil FlexFire	1.6
Brand A	1.7
Brand B	1.7
Brand C	1.8
Brand D	1.9

CONDITIONS	
Column Functional Group	C18
Size	2.0 x 50 mm
Mobile Phase	Acetonitrile / 10 mM NH ₄ OH, pH10.5=60/40
Flow Rate	0.5 mL/min
Temperature	40°C
Detection	UV 254 nm
Sample	Naphthalene (0.1 mg/mL)
Injection Volume	0.16 µL

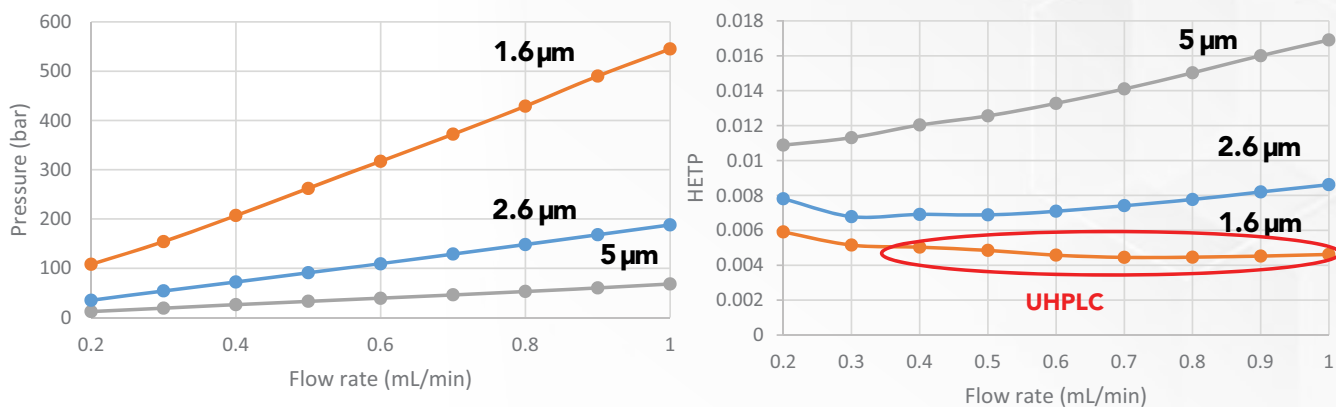
◆ Flexibility

■ HPLC-UHPLC Method Transferability

FlexFire series provides 1.6, 2.6 and 5 µm particle sizes to fit the requirements of your analytical systems, both HPLC and UHPLC. This wide range of options allows the same line of columns to be used in different departments, such as R&D and QC (quality control).

FlexFire dramatically shortens the required time for tweaking the optimal condition from one particle size to another. This is because the excellence and homogeneity of the silica gel, endcapping, and bonding of functional groups provides predictable consistency across all of the FlexFire columns.

Figure below shows HETP and column pressure at different flow rates. Smaller particle size provides higher resolution across a wider range of flow rates.



CONDITIONS	
Column	Develosil FlexFire C18 (2.0 x 50 mm)
Mobile Phase	Acetonitrile/Water = 60/40
Temperature	40°C
Detection	UV 254 nm
Sample	Naphthalene
Injection Volume	0.16 μL



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