



HICHROM

Chromatography Columns and Supplies

**LC COLUMNS
Thermo Scientific
Synchronis and
Fluophase**

Catalogue 9

Hichrom Limited

**1 The Markham Centre, Station Road
Theale, Reading, Berks, RG7 4PE, UK**

Tel: +44 (0)118 930 3660 Fax: +44 (0)118 932 3484

Email: sales@hichrom.co.uk www.hichrom.co.uk

Synchronis™

- High purity, high surface area silica
- Dense bonding and double endcapping
- Stringent manufacturing and testing protocols

Synchronis™ HPLC columns are based on high purity 100Å silica, with a surface area of 320m²/g. Phases are available in three particle sizes: 1.7µm for rapid UHPLC separations and 3µm and 5µm for more traditional HPLC analyses. Synchronis reversed-phase columns are densely bonded and double endcapped to minimise the number of interacting silanols.



Synchronis Phase	Endcapped	Particle Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Carbon Load (%)	pH Range
C18	Yes	1.7, 3, 5	100	320	16	2 - 9
C8	Yes	1.7, 3, 5	100	320	10	2 - 8
aQ	Polar	1.7, 3, 5	100	320	19	2 - 8
Phenyl	Yes	1.7, 3, 5	100	320	11	2 - 8
Amino	Yes	1.7, 3, 5	100	320	4	2 - 8
Silica	-	1.7, 3, 5	100	320	-	2 - 8
HILIC	-	1.7, 3, 5	100	320	5	2 - 8

Please contact Hichrom for ordering information for Synchronis columns.

Fluophase®

- Strong retention of polar analytes
- Extra selectivity for halogenated compounds
- High selectivity towards closely related compounds

Fluophase® RP (100Å) and WP (300Å) are straight chain perfluorohexyl materials, whereas Fluophase PFP is a perfluorophenyl phase. These fluorinated phases exhibit extra retention and selectivity for halogenated compounds compared with C18 phases. They also exhibit good shape selectivity for positional isomers of halogenated aromatic compounds. Polar compounds are often well retained on these materials. Fluophase phases are also excellent for the separation of difficult non-polar samples such as surfactants. They are frequently used in the analysis of complex taxane samples. Fluophase columns are stable under 100% aqueous conditions, so are ideal for 0 to 100% organic fast gradients.

Fluophase Phases

Phase	Bonding Chemistry	Particle Size (µm)	Pore Size (Å)	Endcapped
Fluophase RP	Perfluorohexyl straight chain	5	100	Yes
Fluophase WP	Perfluorohexyl straight chain	5	300	Yes
Fluophase PFP	Perfluorophenyl	5	100	Yes

Ordering Information

Column i.d. ¹ (mm)	Column Length ¹ (mm)				Drop-In Guard Cartridges (4/pk)
	50	100	150	250	
2.1	xxxxx-052130 £310	xxxxx-102130 £337	xxxxx-152130 £355	xxxxx-252130 £375	xxxxx-012101 ² £179
3.0	xxxxx-053030 £310	xxxxx-103030 £337	xxxxx-153030 £355	-	-
4.6	xxxxx-054630 £295	xxxxx-104630 £321	xxxxx-154630 £339	xxxxx-254630 £356	xxxxx-014001 ³ £179

¹ Other dimensions available

² Use with Uniguard direct connect holder 852-00 (£75)

³ Use with Uniguard direct connect holder 850-00 (£75)

When ordering please replace 'xxxxx' with the appropriate Fluophase material code:

RP xxxxx=82505 WP xxxxx=82605 PFP xxxxx=82705

Please note that not all phases are available in every dimension.