



# **HICHROM**

**Chromatography Columns and Supplies**

**LC COLUMNS  
Thermo Scientific  
Synchronis and  
Fluophase**

**Catalogue 9**

## **Hichrom Limited**

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## 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 320m<sup>2</sup>/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 <sup>2</sup> /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. <sup>1</sup> (mm)	Column Length <sup>1</sup> (mm)				Drop-In Guard Cartridges (4/pk)
	50	100	150	250	
2.1	xxxx-052130	xxxx-102130	xxxx-152130	xxxx-252130	xxxx-012101 <sup>2</sup>
3.0	xxxx-053030	xxxx-103030	xxxx-153030	-	-
4.6	xxxx-054630	xxxx-104630	xxxx-154630	xxxx-254630	xxxx-014001 <sup>3</sup>

<sup>1</sup> Other dimensions available

<sup>2</sup> Use with Uniguard direct connect holder 852-00

<sup>3</sup> Use with Uniguard direct connect holder 850-00

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.