



HICHROM

Chromatography Columns and Supplies

LC COLUMNS
Bischoff

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

- Base deactivated silica phases, with range of pore sizes - 60Å, 120Å, 200Å and 300Å
- Polar embedded C18 and C8 phases
- C30 phase
- Porous and non-porous sub 2µm phases

The ProntoSIL range of HPLC columns is manufactured by Bischoff Chromatography, Germany. A selection of some of the more popular phases is summarised in the table below. In addition to ProntoSIL, Bischoff manufacture ProntoPEARL sub 2 micron phases.

ProntoSIL Phases

ProntoSIL Phase	Particle Size (µm)	Pore Size (Å) ¹	Surface Area (m ² /g)	Carbon Load (%)	Endcapped
C30	3, 5, 10	200 ²	200	20	No
C18 ace-EPS ³	3, 5, 10	120	300	18.5	Yes
C18 H	3, 5, 10	120	300	17.5	Yes
C18 SH	3, 5, 10	120	300	17	Yes
C18 AQ	3, 5, 10	120	300	14	Yes
C18 AQ Plus	5	120	300	17	Yes
C8 ace-EPS ³	3, 5	120	300	12	Yes
C4	3, 5	120	300	4	No
C1	3, 5	120	300	2	No
Phenyl	3, 5	120	300	10	Yes
Amino ³	3, 5	120	300	5	No
CN	3, 5	120	300	N/A	Yes
Diol	3, 5	120	300	8	No
Si	3, 5, 10	120	300	-	No

¹ Other pore sizes (eg 60, 200 and 300Å) also available – please enquire for details

² 120Å and 300Å C30 phases also available

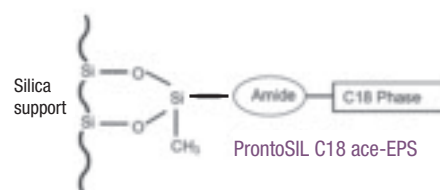
³ Sub 2µm phases also available – see below

ProntoSIL C30

ProntoSIL C30 columns are particularly suited for the separation of hydrophobic, long-chain structural isomers, such as carotenoids and tocopherol derivatives. They show significantly greater shape selectivity compared to C18 phases, due to their rigid, highly ordered C30 alkyl groups. ProntoSIL C30 is available with pore sizes of 120, 200 and 300Å, with an endcapped and non-endcapped version produced for the 300Å phase. For optimum performance, C30 columns should be used at ambient temperature or lower.

ProntoSIL C18 ace-EPS

ProntoSIL C18 ace-EPS is specifically designed for high resolution separation of polar compounds. An embedded amide group adds polar selectivity to this highly retentive phase and also shields the silica surface so that excellent peak shapes can be achieved for basic compounds. With a recommended pH range of 1–10, ProntoSIL C18 ace-EPS also provides good peak shapes for acids. The proprietary bidentate bonding chemistry helps create a stable and robust phase.



ProntoPEARL sub2 HPLC Columns

ProntoPEARL columns are designed for ultra fast chromatography. Two particle types are available – 1.8µm totally porous (TPP) for high speed separations of small molecules and 1.5µm non-porous (NPP) for high speed separations of proteins. ProntoPEARL sub2 TPP phases are available in C18 ace-EPS, C8 ace-EPS and aminopropyl (NH₂) chemistries. ProntoPEARL sub2 NPP is available as a C18 phase.

Please contact Hichrom for ordering information for any ProntoSIL or ProntoPEARL column.