



Trusted by Scientists Worldwide



Hypersil...The HPLC column name you trust, from the manufacturer trusted by scientists worldwide.

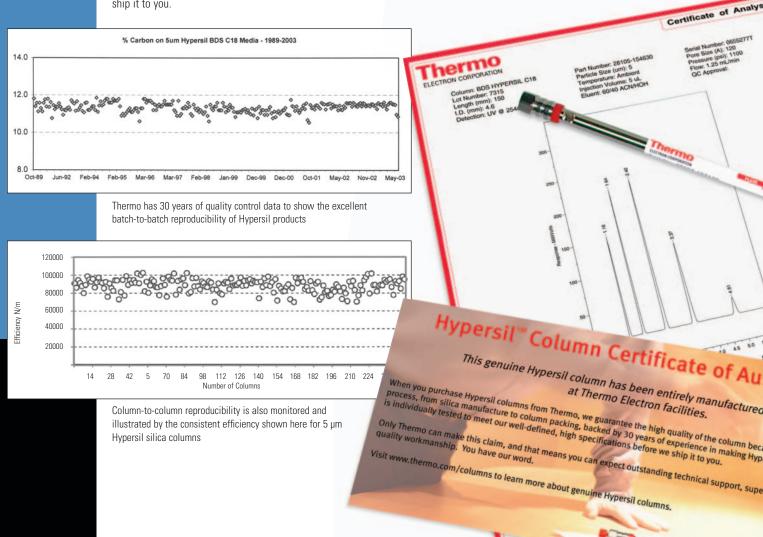
As the world's sole manufacturer of Hypersil silica for 30 years, Thermo Electron Corporation has set the standard in HPLC with exceptionally reliable and reproducible HPLC columns. Whether you use Classical Hypersil columns including ODS, Hypersil BDS base deactivated columns, or are looking for something new, we have a complete product line of HPLC columns to meet your needs.

- Original Hypersil columns
- Exceptional reproducibility
- Wide range of chemistries and particle sizes
- Economical, general purpose columns
- Full technical and applications support

Trust Hypersil and Hypersil BDS columns from Thermo for your validated methods; the only Hypersil columns that carry the Certificate of Authenticity in the box. Thermo can guarantee the high level of reproducibility, consistency, quality and support you need because we control the complete process, from silica manufacture to column packing. We also individually test each column to meet our well-defined, high specifications before we ship it to you.

Trust Hypersil for Reproducibility

Chromatographers frequently refer to Hypersil as the column of choice. And for good reason. Hypersil columns have gained a reputation as one of the most robust, reproducible and reliable HPLC columns available. Their wide breadth of application, including non-polar and neutral, acidic and basic analytes, long column lifetimes, and high efficiency make Hypersil columns a popular choice for validated methods. The true test of reproducibility is time, and Hypersil media and columns have an excellent record of consistency in major physical characteristics for over 30 years.



Trust Hypersil for Quality

Entrust your QA/QC processes with columns from the manufacturer who practices superior QA/QC processes themselves. At Thermo, we individually test each column using fully documented, ISO9001:2000

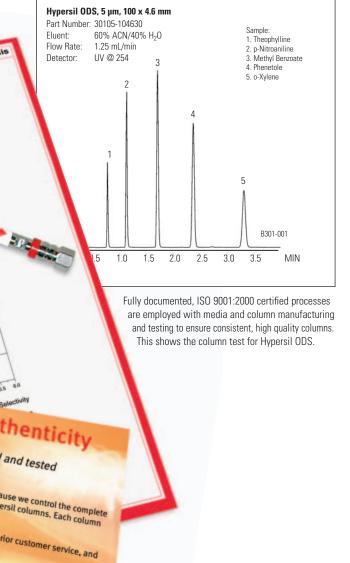
certified processes, and if it doesn't meet specifications, it will not ship. When you purchase Hypersil columns from Thermo, you can trust the column meets high manufacturing quality specifications when you place it in your HPLC system. Plus you know we will stand behind our columns because we have manufactured it from silica production through to column packing.



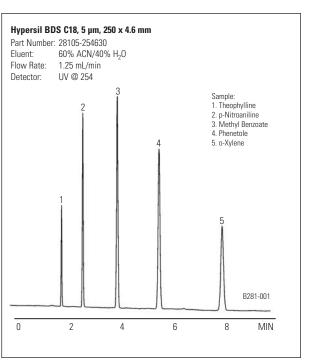




- . Hypersil base silica must pass 30 physical and chromatographic test specifications
- Packed columns are individually tested
- One of the first manufacturers of chromatographic packing materials to achieve ISO accreditation





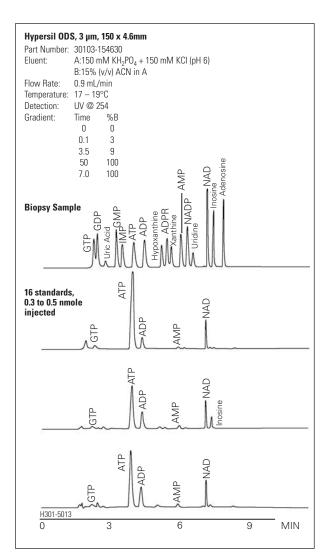


Each Hypersil BDS columns is individually tested before it leaves our factory, as illustrated by the column QC test.

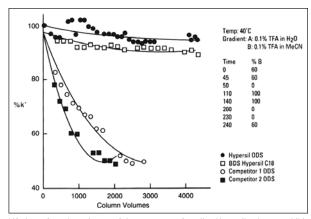
Trust Hypersil for Reliability

Hypersil columns from Thermo are one of the most frequently referenced brands in scientific literature and compendial methods. Since its introduction, the Hypersil family of columns has become synonymous with quality and reliability. This reputation has been enhanced even further by the recent introduction of columns intended to mimic the consistent performance of Hypersil, which has been achieved through 30 years experience in process design, manufacturing and stringent QC batch testing. Hypersil has set the standard for reproducible, high-performance chromatography columns; Hypersil columns are still one of the most widely referenced and requested columns in the world.

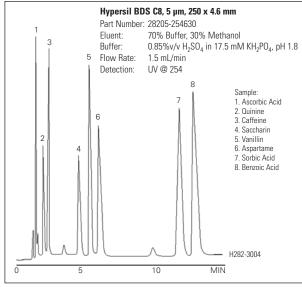
- Exclusively manufactured by Thermo
- Excellent column-to-column reproducibility
- Global standard for general purpose, reliable columns
- Consistent high efficiency
- Long column lifetimes



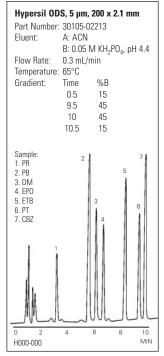
Nucleotides and nucleosides from complex samples can be analyzed using Hypersil ODS columns



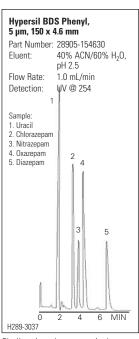
Lifetime of a column is one of the true tests of quality. Hypersil columns exhibit long lifetimes under acidic conditions compared to competitor C18 columns.



Additives in soft drinks can be readily separated using a Hypersil BDS C8 column



Separation of a mixture of anti-epileptic drugs using a Hypersil ODS column



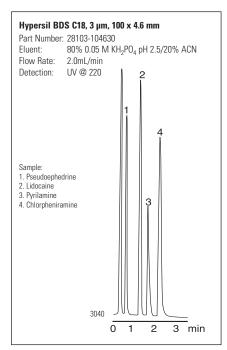
Challenging pharmaceutical compounds such as benzodiazapines are easily separated using a Hypersil BDS Phenyl column

Trust Hypersil for Technical Support

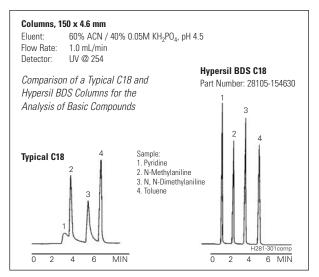
Who can you trust to support a column better than the company involved in the manufacture of the column, from silica production through column packing? As the only manufacturer, Thermo knows Hypersil columns well and can help you make the most of your chromatography.

Thermo offers superior technical support to help you obtain the best chromatographic results because we understand Hypersil columns better than anyone else. Our experienced technical support chemists will answer any chromatography or application question, quickly and accurately. Please contact us by phone, fax or email for assistance with any chromatography question or application.

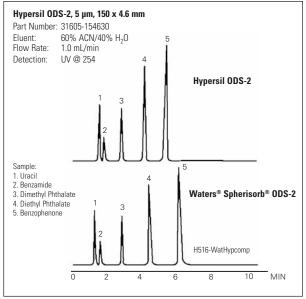
- Column selection
- Method development support
- Applications assistance



Thermo has a wide range of applications run on Hypersil columns available to help make your column choice easier, including this separation of pyrilamine and chloroheniramine.



Thermo's qualified technical support staff will help you choose the right Hypersil column and conditions for your analyses.



Expert advice on equivalent columns is available. Here we show a comparison for the analysis of basic compounds.



Trust Hypersil HPLC Columns

The following properties are provided to help you make an informed decision to change your methods to include Hypersil columns. Should you require additional information and performance characteristics, or help with transferring your method, please contact our Technical Support group. We are here to help.

Phase	Particle Size	Carbon Load	Pore Size	Endcapped	Silica Type	USP Code
Hypersil BDS C18	3 and 5 µm	11.0%	130Å	Yes	Base deactivated spherical silica	L1
Hypersil BDS C8	3 and 5 µm	7.0%	130Å	Yes	Base deactivated spherical silica	L7
Hypersil BDS Cyano	3 and 5 µm	4.0%	130Å	Yes	Base deactivated spherical silica	L10
Hypersil BDS Phenyl	3 and 5 µm	5.0%	130Å	Yes	Base deactivated spherical silica	L11
Hypersil ODS (C18)	3 and 5 µm	10.0%	120Å	Yes	Spherical silica	L1
Hypersil ODS-2 (C18)	3 and 5 µm	11.0%	80Å	Yes	Spherical silica	L1
Hypersil Silica	3 and 5 µm	N/A	120Å	No	Spherical silica	L3
Hypersil MOS (C8)	3 and 5 µm	6.5%	120Å	No	Spherical silica	L7
Hypersil MOS-2	3 and 5 µm	6.5%	120Å	Yes	Spherical silica	L7
Hypersil APS-2 (NH ₂)	3 and 5 µm	1.9%	120Å	No	Spherical silica	L8
Hypersil CPS (Cyano)	3 and 5 µm	4.0%	120Å	No	Spherical silica	L10
Hypersil CPS-2	5 μm	4.0%	120Å	Yes	Spherical silica	L10
Hypersil Phenyl	3 and 5 µm	5.0%	120Å	No	Spherical silica	L11
Hypersil Phenyl-2	5 μm	5.0%	120Å	Yes	Spherical silica	L11
Hypersil SAS (C1)	3 and 5 µm	2.5%	120Å	Yes	Spherical silica	L13
Hypersil SAX	5 μm	2.5%	120Å	Yes	Spherical silica	L14

Ordering Information

As well as placing your order through Customer Service, you can easily order your Hypersil columns online at www.thermo.com/columns.

Hypersil BDS Columns

Phase	Particle Size	Length (mm)	4.6 mm ID	2.1 mm ID
Hypersil BDS C18	3 μm	30	28103-034630	28103-032130
		50	28103-054630	28103-052130
		100	28103-104630	28103-102130
		150	28103-154630	28103-152130
	5 μm	50	28105-054630	28105-052130
		100	28105-104630	28105-102130
		150	28105-154630	28105-152130
		250	28105-254630	28105-252130
Hypersil BDS C8	3 μm	50	28203-054630	28203-052130
		100	28203-104630	28203-102130
		150	28203-154630	28203-152130
	5 μm	50	28205-054630	28205-052130
		100	28205-104630	28205-102130
		150	28205-154630	28205-152130
		250	28205-254630	28205-252130
Hypersil BDS Cyano	3 μm	50	28803-054630	28803-052130
		100	28803-104630	28803-102130
		150	28803-154630	28803-152130
	5 μm	50	28805-054630	28805-052130
		150	28805-154630	28805-152130
		250	28805-254630	28805-252130
Hypersil BDS Phenyl	3 μm	50	28903-054630	28903-052130
		100	28903-104630	28903-102130
		150	28903-154630	28903-152130
	5 μm	150	28905-154630	28905-152130
		250	28905-254630	28905-252130

Hypersil BDS Guard Cartridges and Holders

Phase	Particle Size	Length (mm)	4.6 mm ID	2.1 mm ID
Hypersil BDS C18	3 μm	10	28103-014001	28103-012101
	5 μm	10	28105-014001	28105-012101
Hypersil BDS C8	3 μm	10	28203-014001	28203-012101
	5 μm	10	28205-014001	28205-012101
Hypersil BDS Cyano	3 μm	10	28803-014001	28803-012101
	5 μm	10	28805-014001	28805-012101
Hypersil BDS Phenyl	3 μm	10	28903-014001	28903-012101
	5 μm	10	28905-014001	28905-012101
UNIGUARD Direct-Con Drop-in Guard Cartric			850-00	852-00

Hypersil Columns

Phase	Particle Size	Length (mm)	4.6 mm ID	2.1 mm ID
Hypersil ODS (C18)	3 μm	50	30103-054630	30103-052130
		100	30103-104630	30103-102130
		150	30103-154630	30103-152130
	5 μm	50	30105-054630	30105-052130
		100	30105-104630	30105-102130
		150	30105-154630	30105-152130
		250	30105-254630	30105-252130
Hypersil ODS-2 (C18)	5 μm	100	31605-104630	31605-102130
		150	31605-154630	31605-152130
		250	31605-254630	31605-252130
Hypersil MOS (C8)	5 μm	100	30205-104630	30205-102130
		150	30205-154630	30205-152130
		250	30205-254630	30205-252130
Hypersil MOS-2 (C8)	3 µm	50	30303-054630	30303-052130
		100	30303-104630	30303-102130
		150	30303-154630	30303-152130
	5 μm	150	30305-154630	30305-152130
		250	30305-254630	30305-252130
Hypersil SAS (C1)	5 μm	150	30505-154630	30505-152130
		250	30505-254630	30505-252130
Hypersil CPS (Cyano)	3 μm	100	30803-104630	30803-102130
		150	30803-154630	30803-152130
	5 μm	150	30805-154630	30805-152130
		250	30805-254630	30805-252130
Hypersil CPS-2 (Cyano)	5 μm	50	31805-054630	31805-052130
		250	31805-254630	31805-252130
Hypersil Phenyl	3 μm	50	30903-054630	30903-052130
		150	30903-154630	30903-152130
	5 μm	150	30905-154630	30905-152130
		250	30905-254630	30905-252130
Hypersil Phenyl-2	5 μm	150	31905-154630	31905-152130
		250	31905-254630	31905-252130
Hypersil Silica	3 μm	50	30003-054630	30003-052130
		150	30003-154630	30003-152130
	5 μm	50	30005-054630	30005-052130
		150	30005-154630	30005-152130
		250	30005-254630	30005-252130
Hypersil APS-2 (Amino)	3 μm	150	30703-154630	30703-152130
,	5 μm	50	30705-054630	30705-052130
		150	30705-154630	30705-152130
		250	30705-254630	30705-252130
Hypersil SAX	5 μm	150	34105-154630	34105-152130
	•	250	34105-254630	34105-252130



Hypersil Guard Cartridges and Holders

Phase	Particle Size	Length (mm)	4.6 mm ID	2.1 mm ID
Hypersil ODS (C18)	3 μm	10	30103-014001	30103-012101
	5 μm	10	30105-014001	30105-012101
Hypersil MOS (C8)	5 μm	10	30205-014001	30205-012101
Hypersil MOS-2 (C8)	5 μm	10	30305-014001	30305-012101
Hypersil Phenyl	5 μm	10	30905-014001	30905-012101
Hypersil CPS (Cyano)	5 μm	10	30805-014001	30805-012101
Hypersil Silica	3 μm	10	30003-014001	30003-012101
	5 μm	10	30005-014001	30005-012101
Hypersil APS-2 (Amino)	5 μm	10	30705-014001	30705-012101
Hypersil SAX	5 μm	10	34105-014001	34105-012101
UNIGUARD Direct-Connect Drop-in Guard Cartridge Holder			850-00	852-00

Other column dimensions are available. Please call Customer Service for more information.



Laboratory Solutions Backed by Worldwide Service and Support

Tap our expertise throughout the life of your instrument. As an industry leader in analytical instruments, Thermo extends its support throughout our worldwide network of Thermo-trained and certified engineers who are experts in laboratory technologies and applications. Put our team of experts to work for you in a range of disciplines, from system installation, training and technical support, to complete asset management and regulatory compliance consulting. Improve your productivity and lower the cost of instrument ownership through our product support services. Maximize uptime while eliminating the uncontrollable cost of unplanned maintenance and repairs. When it's time to enhance your systems, Thermo also offers certified parts and a range of accessories and consumables suited to your application.

To learn more about our products and comprehensive service offerings, visit our Web site at www.thermo.com.



In addition to these offices, Thermo Electron Corporation maintains a network of representative organizations throughout the world.

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