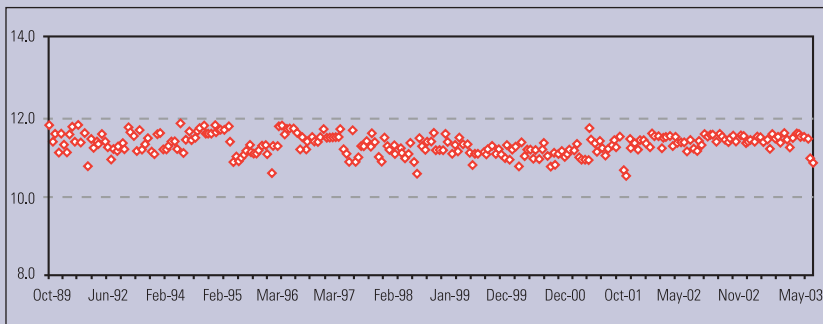


Hypersil BDS Columns

Reproducible, reliable and trusted worldwide

- Base deactivated and endcapped for reduced peak tailing
- Highly reproducible, robust columns with long lifetimes
- Hypersil™ columns directly from the manufacturer for the best quality, service and technical support

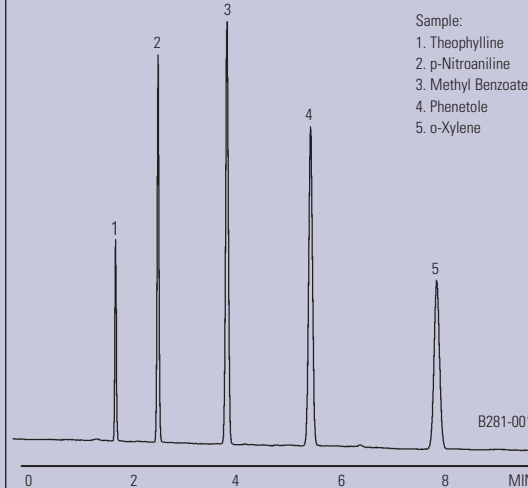
Built on the renowned Hypersil silica backbone, Thermo Scientific Hypersil BDS (Base Deactivated Silica) is an excellent reversed phase material for a wide range of applications and is one of the most popular packing materials available. Introduced to the chromatography market in 1988 as one of the first base deactivated silicas, Hypersil BDS columns have gained respect worldwide for their quality, reliability, range of applications, robustness, and reproducibility. Hypersil BDS columns are the only Hypersil columns within the marketplace that come with a Certificate of Authenticity.



Our 30 years of quality control data demonstrates the excellent batch-to-batch reproducibility of Thermo Scientific Hypersil products

Hypersil BDS C18, 5 μm, 250 x 4.6 mm

Part Number: 28105-254630
 Eluent: 60% ACN/40% H₂O
 Flow Rate: 1.25 mL/min
 Detector: UV at 254 nm



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

Hypersil BDS media and columns are manufactured to the highest standards and are rigorously quality controlled under fully documented, ISO 9001:2000 certified processes. When you purchase a Thermo Scientific Hypersil BDS column you are assured of consistent and efficient performance, column after column and year after year.

Thermo SCIENTIFIC
 Column: BDS HYPERSIL C18
 Lot Number: 8497
 Length (mm): 250
 I.D. (mm): 4.6
 Detector: UV @ 254nm

Part Number: 28105-254630
 Particle Size (μm) & Pore Size (Å): 5 & 100
 Temperature (°C): Ambient
 Injection Volume: 5 μL
 Eluent: 60/40 ACN/H₂O

Serial Number: 03702120
 Pore Size (Å): 100
 Pressure (psi): 1500
 Flow: 1.25 mL/min
 QC Approve:

Hypersil™ Column Certificate of Authenticity
 This genuine Hypersil column has been entirely manufactured and tested at Thermo Fisher Scientific facilities.

When you purchase Thermo Scientific Hypersil columns, we guarantee the high quality of the column because we control the complete process, from silica manufacture to column packing, backed by 30 years of experience in making Hypersil columns. Each column is individually tested to meet our well-defined, high specifications before we ship it to you.

Only Thermo Scientific Hypersil columns can make this claim, and that means you can expect outstanding technical support, superior customer service, and quality workmanship. You have our word.

Visit www.thermo.com/columns to learn more about genuine Hypersil columns.

Thermo SCIENTIFIC

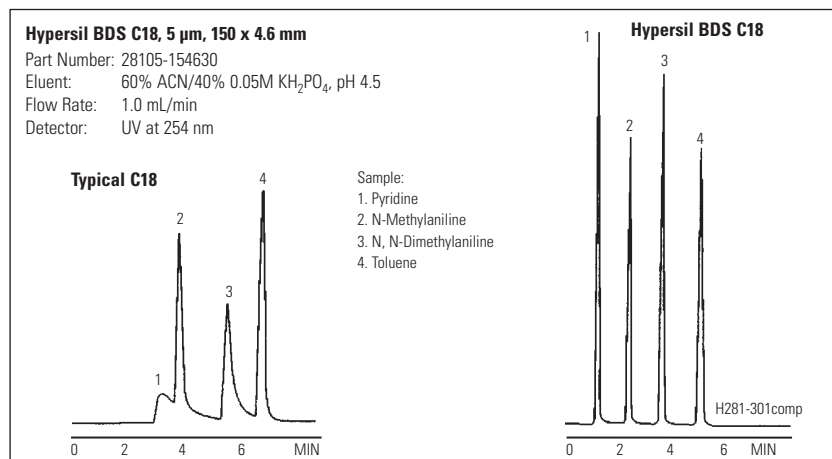
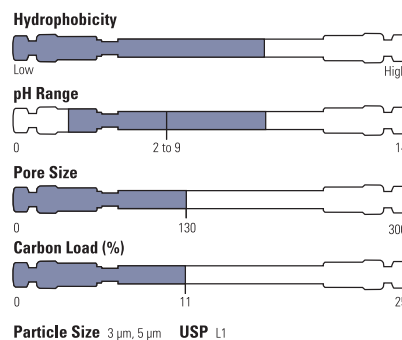
Hypersil BDS C18 Columns

The standard for base deactivated columns

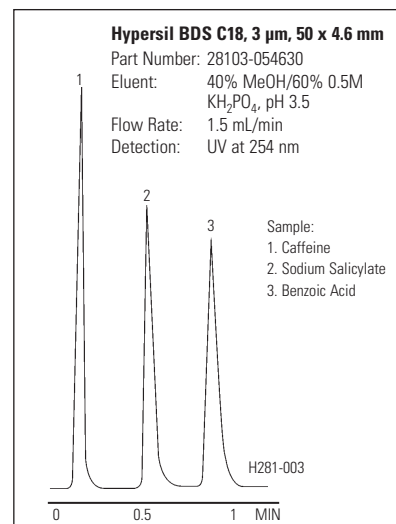
- Original Hypersil columns from the manufacturer
- Base deactivated with minimal residual silanol activity
- Exceptional reproducibility
- Economical, general purpose columns

Hypersil™ BDS C18 media is an excellent reversed phase material for a variety of applications and is one of the most popular packing materials available. Hypersil BDS C18 columns are a good choice for QA/QC labs as a robust general purpose column in applications where reproducibility and long column lifetimes are required.

Hypersil BDS C18 columns are applicable to a wide range of analytes including acids, bases and neutrals as shown, and are popular in methods worldwide. Hypersil BDS C18 columns are also available in a 3 µm particle size. The smaller particle size typically yields 25% greater efficiency than the 5 µm particles, for an increase in resolution which allows for faster separations.



Comparison of a typical C18 and Hypersil BDS C18 columns for the analysis of basic compounds



3 µm Hypersil BDS C18 for faster separations

Ordering Information

Hypersil BDS C18 Columns



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	30	28103-034630	28103-034030	28103-033030	28103-032130
	50	28103-054630	28103-054030	28103-053030	28103-052130
	100	28103-104630	28103-104030	28103-103030	28103-102130
	150	28103-154630	28103-154030	28103-153030	28103-152130
5 µm	50	28105-054630	28105-054030	28105-053030	28105-052130
	100	28105-104630	28105-104030	28105-103030	28105-102130
	125	28105-124630	28105-124030	28105-123030	28105-122130
	150	28105-154630	28105-154030	28105-153030	28105-152130
	200	28105-204630	28105-204030	28105-203030	28105-202130
	250	28105-254630	28105-254030	28105-253030	28105-252130

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

Hypersil BDS C18 Drop-in Guard Cartridges (pk/4)



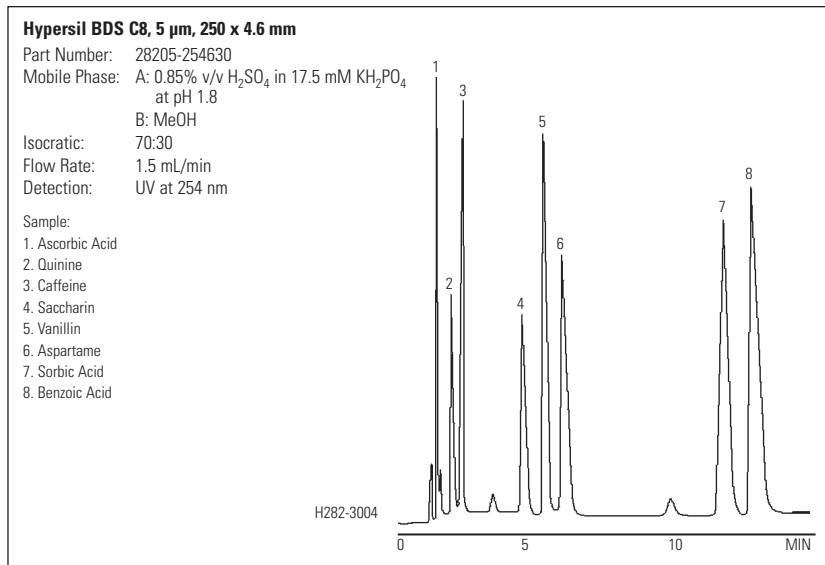
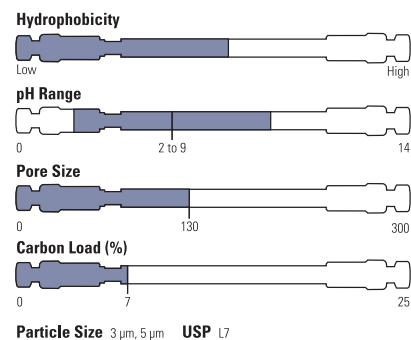
Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	10	28103-014001	28103-014001	28103-013001	28103-012101
5 µm	10	28105-014001	28105-014001	28105-013001	28105-012101
UNIGUARD™ Direct-Connect Drop-in Guard Cartridge Holder		850-00	850-00	852-00	852-00

Hypersil BDS C8 Columns

Reduce retention and increase speed

- Ideal choice for acids, bases and neutral compounds
- Less retentive than C18 for faster analyses
- Robust columns with long column lifetimes
- Very reliable for routine assays

Hypersil™ BDS columns have gained respect worldwide for their quality, reliability, range of applications, robustness and reproducibility. Hypersil BDS C8 columns offer the same high quality base-deactivated, fully end-capped phase as Hypersil BDS C18, with similar selectivity but slightly less retention. They are applicable to the analysis of acids, bases and neutrals including soft drink additives as shown.



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

Ordering Information

Hypersil BDS C8 Columns



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	50	28203-054630	28203-054030	28203-053030	28203-052130
	100	28203-104630	28203-104030	28203-103030	28203-102130
	150	28203-154630	28203-154030	28203-153030	28203-152130
5 µm	50	28205-054630	28205-054030	28205-053030	28205-052130
	100	28205-104630	28205-104030	28205-103030	28205-102130
	150	28205-154630	28205-154030	28205-153030	28205-152130
	250	28205-254630	28205-254030	28205-253030	28205-252130

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

Hypersil BDS C8 Drop-in Guard Cartridges (pk/4)



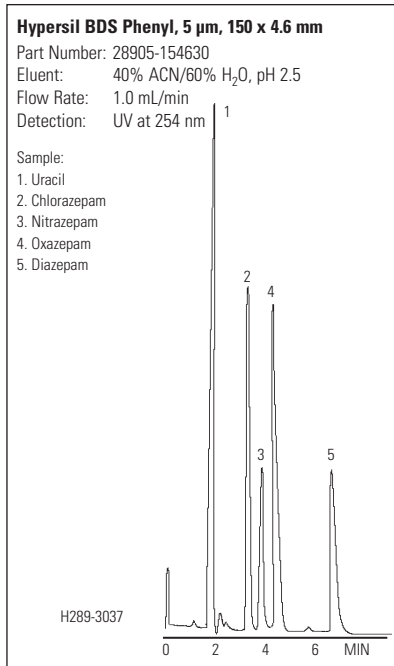
Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	10	28203-014001	28203-014001	28203-013001	28203-012101
5 µm	10	28205-014001	28205-014001	28205-013001	28205-012101
UNIGUARD™ Direct-Connect Drop-in Guard Cartridge Holder		850-00	850-00	852-00	852-00

Hypersil BDS Phenyl Columns

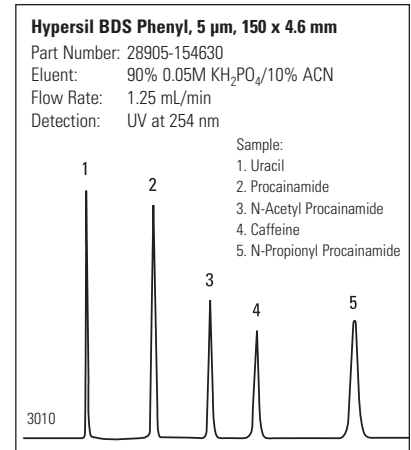
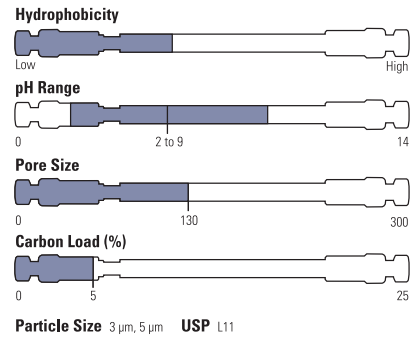
Alternative selectivity in a trusted column family

- High quality, base deactivated columns
- Unique selectivity for aromatic and slightly polar compounds
- Manufactured under ISO 9001:2000 conditions

Hypersil™ BDS Phenyl columns offer alternative selectivity to Hypersil BDS C18 and C8 columns. It is well established that phenyl phases offer clear advantages over alkyl chains when certain types of compounds must be resolved. The exceptional stability and unique selectivity of Hypersil BDS Phenyl can be used to accomplish a difficult separation. As with all Hypersil BDS columns, the base deactivation procedure and endcapping process minimize peak tailing, even for basic drugs. Each Hypersil BDS column comes with a Certificate of Authenticity.



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



The analysis of procainamides using Hypersil BDS Phenyl

Ordering Information

Hypersil BDS Phenyl Columns



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	50	28903-054630	28903-054030	28903-053030	28903-052130
	100	28903-104630	28903-104030	28903-103030	28903-102130
	150	28903-154630	28903-154030	28903-153030	28903-152130
5 µm	50	28905-054630	28905-054030	28905-053030	28905-052130
	100	28905-104630	28905-104030	28905-103030	28905-102130
	150	28905-154630	28905-154030	28905-153030	28905-152130
	250	28905-254630	28905-254030	28905-253030	28905-252130

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

Hypersil BDS Phenyl Drop-in Guard Cartridges (pk/4)



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	10	28903-014001	28903-014001	28903-013001	28903-012101
5 µm	10	28905-014001	28905-014001	28905-013001	28905-012101
UNIGUARD™ Direct-Connect Drop-in Guard Cartridge Holder		850-00	850-00	852-00	852-00

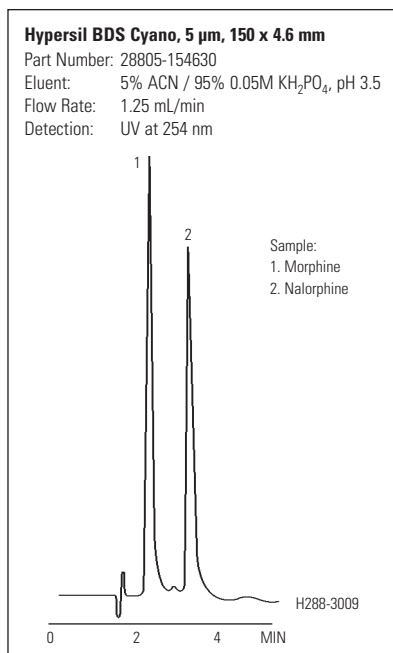


Hypersil BDS Cyano Columns

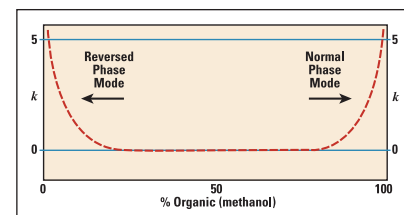
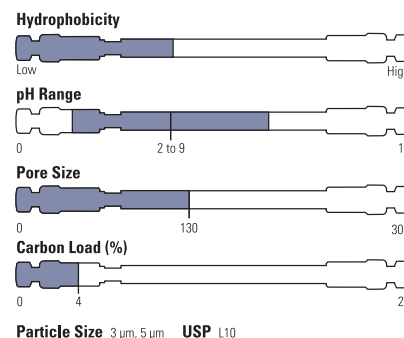
For reversed or normal phase applications

- Reliable cyano columns with long lifetimes
- Use in reversed phase for alternative selectivity
- Use in normal phase for less retention than silica columns

Hypersil™ BDS Cyano columns can be used in both reversed phase and normal phase chromatography. In reversed phase, they offer different selectivity compared to C18 or C8 phases. In normal phase, they are less retentive than silica columns. Hypersil BDS Cyano columns are packed and shipped in normal phase solvents. For reversed phase applications, flush with appropriate solvents before use.



Morphine and Nalorphine on a Hypersil BDS Cyano column



Cyano columns can retain and separate compounds under reversed or normal phase conditions due to their dual modes of retention

Ordering Information

Hypersil BDS Cyano Columns



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	50	28803-054630	28803-054030	28803-053030	28803-052130
	100	28803-104630	28803-104030	28803-103030	28803-102130
	150	28803-154630	28803-154030	28803-153030	28803-152130
5 µm	50	28805-054630	28805-054030	28805-053030	28805-052130
	100	28805-104630	28805-104030	28805-103030	28805-102130
	150	28805-154630	28805-154030	28805-153030	28805-152130
	250	28805-254630	28805-254030	28805-253030	28805-252130

Other column dimensions are available. Please call Customer Service for more information. Please note that Hypersil BDS Cyano columns are shipped in isooctane:ethanol. For reversed phase applications, flush with ethanol or 2-propanol prior to use.

Hypersil BDS Cyano Drop-in Guard Cartridges (pk/4)



Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID
3 µm	10	28803-014001	28803-014001	28803-013001	28803-012101
5 µm	10	28805-014001	28805-014001	28805-013001	28805-012101
UNIGUARD™ Direct-Connect Drop-in Guard Cartridge Holder		850-00	850-00	852-00	852-00