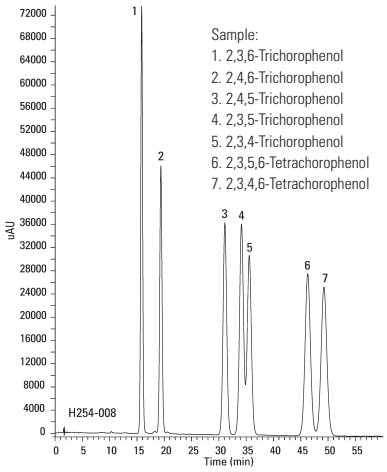
- **Alternative selectivity to C18 with excellent peak shape and sensitivity**
- **Extra retention for halogenated species**
- **Unique selectivity for non-halogenated polar compounds**
- **Also available in 1.9 µm particle size**

Hypersil GOLD PFP Columns

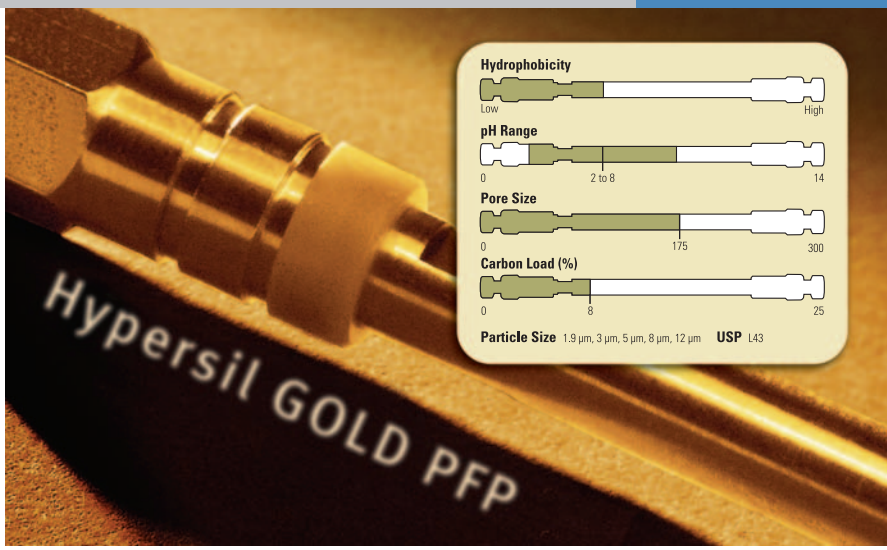
Unique selectivity with perfluorinated columns

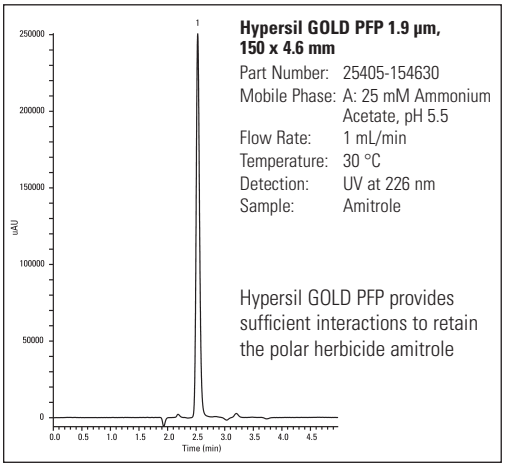
Hypersil GOLD PFP, 5 µm, 150 x 4.6 mm

Part Number: 25405-154630
Mobile Phase: A: H_2O + 0.1% H_3PO_4
B: MeOH
Isocratic: 55:45
Flow Rate: 1.2 mL/min
Temperature: 30 °C
Detection: UV at 230 nm



The separation of chlorophenol positional isomers highlights the unique selectivity of Hypersil GOLD PFP





Hypersil GOLD PFP 1.9 µm, 150 x 4.6 mm

Part Number: 25405-154630
Mobile Phase: A: 25 mM Ammonium Acetate, pH 5.5
Flow Rate: 1 mL/min
Temperature: 30 °C
Detection: UV at 226 nm
Sample: Amitrole

Hypersil GOLD PFP provides sufficient interactions to retain the polar herbicide amitrole

Alternative Selectivity to C18 with Excellent Peak Shape and Sensitivity

Hypersil GOLD™ PFP (pentafluorophenyl) columns build on the performance of the Hypersil GOLD silica by providing excellent peak shapes while also offering alternative selectivity in reversed phase chromatography compared to alkyl chain phases. The Hypersil GOLD PFP manufacturing process provides improvements in speed of analysis, peak shape and sensitivity over other fluorinated phases.

Hypersil GOLD PFP columns are particularly useful when analyzing difficult to resolve mixtures of halogenated compounds and also non-halogenated polar compounds and are frequently used in the analysis of complex taxane samples.

Extra Retention for Halogenated Species

Introduction of fluorine groups into the stationary phase causes significant changes in solute-stationary phase interactions. This can lead to extra retention and selectivity for positional isomers of halogenated compounds.

Unique Selectivity for Non-halogenated Polar Compounds

Hypersil GOLD PFP is also well suited to the selective analysis of non-halogenated compounds, in particular polar compounds containing hydroxyl, carboxyl, nitro, or other polar groups. High selectivity is often most apparent when the functional groups are located on an aromatic or other rigid ring system.

Ordering Information

1.9 µm Hypersil GOLD PFP Columns

Particle Size	Length (mm)	3.0 mm ID	2.1 mm ID	1.0 mm ID	320 µm ID
1.9 µm	20	–	25402-022130	–	–
	30	25402-033030	25402-032130	25402-031030	–
	50	25402-053030	25402-052130	25402-051030	25402-050365
	100	–	25402-102130	25402-101030	25402-100365

Hypersil GOLD PFP Analytical Columns

Particle Size	Length (mm)	4.6 mm ID	4.0 mm ID	3.0 mm ID	2.1 mm ID	1.0 mm ID
3 µm	30	25403-034630	25403-034030	25403-033030	25403-032130	25403-031030
	50	25403-054630	25403-054030	25403-053030	25403-052130	25403-051030
	100	25403-104630	25403-104030	25403-103030	25403-102130	25403-101030
	150	25403-154630	25403-154030	25403-153030	25403-152130	25403-151030
5 µm	30	25405-034630	25405-034030	25405-033030	25405-032130	25405-031030
	50	25405-054630	25405-054030	25405-053030	25405-052130	25405-051030
	100	25405-104630	25405-104030	25405-103030	25405-102130	25405-101030
	150	25405-154630	25405-154030	25405-153030	25405-152130	25405-151030
	250	25405-254630	25405-254030	25405-253030	25405-252130	25405-251030

Hypersil GOLD PFP 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	1.0 mm ID
3 µm	10	25403-014001	25403-014001	25403-013001	25403-012101	25403-011001
5 µm	10	25405-014001	25405-014001	25405-013001	25405-012101	25405-011001
UNIGUARD Direct-Connect Drop-in Guard Cartridge Holder		850-00	850-00	852-00	852-00	851-00

Hypersil GOLD PFP KAPPA Capillary Columns

Particle Size	Length (mm)	500 µm ID	320 µm ID	180 µm ID	100 µm ID	75 µm ID
3 µm	50	25403-050565	25403-050365	25403-050265	–	–
	100	25403-100565	25403-100365	25403-100265	–	–
	150	25403-150565	25403-150365	25403-150265	–	–
5 µm	50	25405-050565	25405-050365	25405-050265	25405-050165	25405-050065
	100	25405-100565	25405-100365	25405-100265	25405-100165	25405-100065
	150	25405-150565	25405-150365	25405-150265	25405-150165	25405-150065

Hypersil GOLD PFP Capillary Guard Columns

Particle Size	Length (mm)	500 µm ID	320 µm ID	180 µm ID
3 µm	30	25403-030515	25403-030315	25403-030215
5 µm	30	25405-030515	25405-030315	25405-030215

Hypersil GOLD PFP PicoFrit Nanobore Columns

Particle Size	Length x ID x Tip (mm x µm x µm)	Single Pack Part Number	Multi Pack Part Number
5 µm	10 x 75 x 15	25405-017581	pack of 4 – 25405-017583
5 µm	50 x 75 x 15	25405-057581	pack of 3 – 25405-057582
5 µm	100 x 75 x 15	25405-107581	pack of 3 – 25405-107582

Hypersil GOLD PFP Specialized Column Hardware for High Throughput

Particle Size	Quantity	DASH HTS 20 x 2.1 mm	Javelin HTS 20 x 4.0 mm	Javelin HTS 20 x 2.1 mm	Javelin HTS 20 x 1.0 mm
5 µm	3	25405-022151	25405-024035	25405-022135	25405-021035
	10	25405-022152	25405-024036	25405-022136	25405-021036

Preparative and other column dimensions available. Please call your local Customer Service for more information.

For more Hypersil GOLD applications, visit the **Chromatography Resource Center** at **www.thermo.com/columns**

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