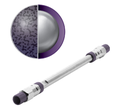
Thermo Scientific Hypersil GOLD and Accucore HPLC and UHPLC columns

Thermo Scientific™ chromatography and mass spectrometry systems offer advanced technologies for separating and analyzing complex mixtures essential in analytical chemistry. From sample to knowledge to results, our workflow solutions enhance productivity and efficiency in food and beverage testing, environmental and industrial testing, pharmaceutical and biopharmaceutical analysis, toxicology, and anti-doping. For research, our products support omics studies, biopharma drug discovery, and clinical research.



Thermo Scientific™ Accucore™ Columns offer UHPLC-level performance, even for HPLC systems with limited pressure capabilities.

With 14 distinct chemistries, Accucore columns provide a comprehensive toolbox for successful (U)HPLC method development.

Thermo Scientific™ Hypersil GOLD™ Columns offer outstanding peak symmetry and excellent lot-to-lot reproducibility.

These columns are available in the broadest range of formats for sub-2 µm particles, ensuring versatility for various applications.

Hydrophobic

Stationary phases	Ligand	Particle sizes (µm)	Porosity and surface area	Carbon load (%)	USP class	Applications
Accucore Vanquish C18+		1.5	80 Å, 110 m^2/g	6.5	L1	Sub-2 µm solid core particle for increased efficiency. For low-dispersion UHPLC systems and ultra-sharp peaks
Accucore C18		2.6	80 Å, 130 m^2/g	9	L1	Hydrophobic retention for a broad range of non-polar analytes. Great starting solid-core column for new methods
Accucore XL C18		4	80 Å, 90 m^2/g	7	L1	Hydrophobic retention for a broad range of non-polar analytes. High efficiency with standard HPLC instruments
Accucore RP-MS	Proprietary hydrophobic ligand	2.6	80 Å, 130 m^2/g	7	-	Similar selectivity as C18 but lower hydrophobic retention. Recommended for fast LC-MS methods
Accucore C8		2.6	80 Å, 130 m^2/g	5	L7	Lower hydrophobic retention and selectivity than C18. For samples with moderate hydrophobicity
Accucore XL C8		4	80 Å, 90 m^2/g	4	L7	For samples with moderate hydrophobicity, and high efficiency with standard HPLC instruments
Accucore 150 C4		2.6	150 Å, 80 m^2/g	2	L26	Low hydrophobicity, wide pores, and low C-term at high linear velocities: column ideal for fast separations of biomolecules
Accucore C30		2.6	150 Å, 80 m^2/g	5	L62	Hydrophobic separation of long-chain compounds. Excellent for lipids
Hypersil GOLD C18 Selectivity		1.9, 3, 5, 12	175 Å, 220 m^2/g	10	L1	Hydrophobic retention for a broad range of non-polar analytes. Proprietary derivatization endcapping for exceptional peak shape
Hypersil GOLD Peptide		1.9	175 Å, 220 m^2/g	10	L1	Consistent column-to-column retention of peptides, including hydrophilic peptides. Resolution of de-amidated species
Hypersil GOLD C8		1.9, 3, 5	175 Å, 220 m^2/g	8	L7	Lower hydrophobic retention and selectivity than C18. For samples with moderate hydrophobicity
Hypersil GOLD C4		1.9, 3, 5	175 Å, 220 m^2/g	5	L26	Lower hydrophobicity column suitable for polypeptides and small proteins

Polar-modified C18

Stationary phases	Ligand	Particle sizes (µm)	Porosity and surface area	Carbon load (%)	USP class	Applications
Accucore aQ		2.6	80 Å, 130 m^2/g	9	L1	Compatible with 100% aqueous mobile phases, special selectivity for polar analytes
Accucore Polar Premium		2.6	150 Å, 90 m^2/g	7	L60	Rugged amide embedded C18 phase that offers complementary selectivity to conventional C18
Hypersil GOLD aQ		1.9, 3, 5	175 Å, 220 m^2/g	12	L1	Compatible with 100% aqueous mobile phases, special selectivity for polar analytes

Phenyl-based

Stationary phases	Ligand	Particle sizes (µm)	Porosity and surface area	Carbon load (%)	USP class	Applications
Accucore Biphenyl		2.6	80 Å, 130 m^2/g	6	L11	Aromatic & moderately polar analytes, drugs of abuse and steroids. Compatible with 100% aqueous
Accucore Phenyl-Hexyl		2.6	80 Å, 130 m^2/g	5	L11	Unique selectivity for aromatic and moderately polar analytes
Accucore PFP		2.6	80 Å, 130 m^2/g	5	L43	Difficult to resolve mixtures including DOA, pharmaceuticals, and halogenated compounds
Accucore Phenyl-X	Proprietary phenyl phase	2.6	80 Å, 130 m^2/g	5	-	Unique reversed-phase shape selectivity with high aromatic selectivity
Hypersil GOLD Phenyl	Proprietary phenyl phase	1.9, 3, 5	175 Å, 220 m^2/g	8	L11	For analysis of aromatic analytes, including glucocorticosteroids, estrogens, fat-soluble vitamins, and phospholipids
Hypersil GOLD PFP		1.9, 3, 5	175 Å, 220 m^2/g	8	L43	Difficult to resolve mixtures including DOA, pharmaceuticals, halogenated compounds

Hydrophilic

Stationary phases	Ligand	Particle sizes (µm)	Porosity and surface area	USP class	Applications
Accucore HILIC		2.6	80 Å, 130 m^2/g	L3	Polar and hydrophilic analytes
Accucore 150 Amide HILIC	Proprietary amide phase	2.6	150 Å, 80 m^2/g	-	Hydrophilic biomolecules such as glycans and glycopeptides
Hypersil GOLD PEI HILIC	Proprietary phase	1.9, 3, 5	175 Å, 220 m^2/g	-	Polar and hydrophilic analytes in drug discovery, food testing, and environmental analysis
Hypersil GOLD Silica		1.9, 3, 5	175 Å, 220 m^2/g	L3	Unbonded, highly pure, base-deactivated silica media efficiently separates nonpolar and moderately polar organic compounds by normal phase chromatography

Multimode

Stationary phases	Ligand	Particle sizes (µm)	Porosity and surface area	Carbon load (%)	USP class	Applications
Hypersil GOLD Amino		1.9, 3, 5	175 Å, 220 m^2/g	2	L8	Separation of anions in weak anion exchange mode. Separation of carbohydrate in reversed phase mode.
Hypersil GOLD Cyano		1.9, 3, 5	175 Å, 220 m^2/g	4	L10	Alternative selectivity with lower hydrophobicity; can also be used for normal phase separations.

Learn more at **thermofisher.com/lccolumns**

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