The Truth About Solid-Core

Unleash the power of your laboratory's instrumentation

Built on Waters proven solid-core technology, CORTECS 1.6 µm and 2.7 µm Columns deliver new levels of chromatographic performance.



C ₁₈ +	C ₁₈	Т3	C ₈	Phenyl	Shield RP18	HILIC
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A general purpose, high-efficiency, reversed-phase column which features a positively charged surface modification.	A traditional Cu-bonded phase which exhibits balanced retention of acids, bases, and neutrals at low- and mid-range pH.	Designed to give balanced retention for both polar and non-polar molecules when operating under reversed phase LC conditions.	An excellent choice for separating strong hydrophobic analytes that are very well retained on a C10 column.	An excellent method development column, as it gives unique selectivity primarily for compounds that have high aromaticity, when compared to typical C10 columns.	An excellent method development column as the embedded polar functional group provides alternative selectivity due to hydrogen bonding.	Hydrophilic-interactior chromatography (HILIC) is a separation mode that can be used to improve the retention of extremely polar analytes.
BENEFITS • Unique column selectivity with industry-leading reproducibility • Exceptional peak shape	BENEFITS • Superb resolution and retention for complex mixtures. • Stability and ability to	BENEFITS • The larger 120Å pore diameter, and lower C18 ligand density, are both designed to increase	BENEFITS • Less hydrophobic than traditional C= columns. • Highly reproducible ligand bonding.	BENEFITS • The phenyl ring provides Pi-Pi bond interactions that can be enhanced by using methanol instead	BENEFITS Gives unique selectivity primarily for phenolic compounds when compared to typical	BENEFITS • HILIC uses mobile phases with a high concentration of organic solvent which enables

- ion-pair reagents
- Improved signal-to-noise performance in LC and LC-MS applications.
- choice in method development)
- excellent non-polar retention. The increased pore
- The increased pore diameter allow the use of 100% aqueous mobile phases, which is desirable in retaining polar analytes.
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- shield over undesired acidic silanol groups the particles surface.
- Inhibits secondary interactions between basic analytes and these acidic silanols with results in better peak shape.
- source, resulting in improved MS response and sensitivity.

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CORTECS ORDERING INFORMATION

Frequently ordered CORTECS UPLC 1.6 µm Columns for UPLC Instruments

	C ₁₈	C ₁₈ +	T3	Shield RP18	C ₈	Phenyl	HILIC
2.1 x 50 mm	186007093	186007114	186008497	186008692	186008399	186008379	186007104
2.1 x 100 mm	186007095	186007116	186008499	186008694	186008401	186008381	186007106
2.1 x 150 mm	186007096	186007117	186008500	186008695	186008402	186008382	186007107

Frequently ordered CORTECS 2.7 µm Columns for UHPLC Instruments

	C ₁₈	C ₁₈ +	T3	Shield RP18	C ₈	Phenyl	HILIC
3.0 x 50 mm	186007370	186007400	186008487	186008672	186008349	186008329	186007385
3.0 x 100 mm	186007372	186007402	186008489	186008674	186008351	186008331	186007387
3.0 x 150 mm	186007373	186007403	186008490	186008675	186008352	186008332	186007388

Frequently ordered CORTECS 2.7 µm Columns for HPLC Instruments

	C ₁₈	C ₁₈ +	T3	Shield RP18	C ₈	Phenyl	HILIC
4.6 x 50 mm	186007375	186007405	186008492	186008682	186008369	186008339	186007390
4.6 x 100 mm	186007377	186007407	186008494	186008684	186008371	186008341	186007392
4.6 x 150 mm	186007378	186007408	186008495	186008685	186008372	186008342	186007393

For a complete list of all CORTECS Column configurations visit: www.waters.com/cortecs

