

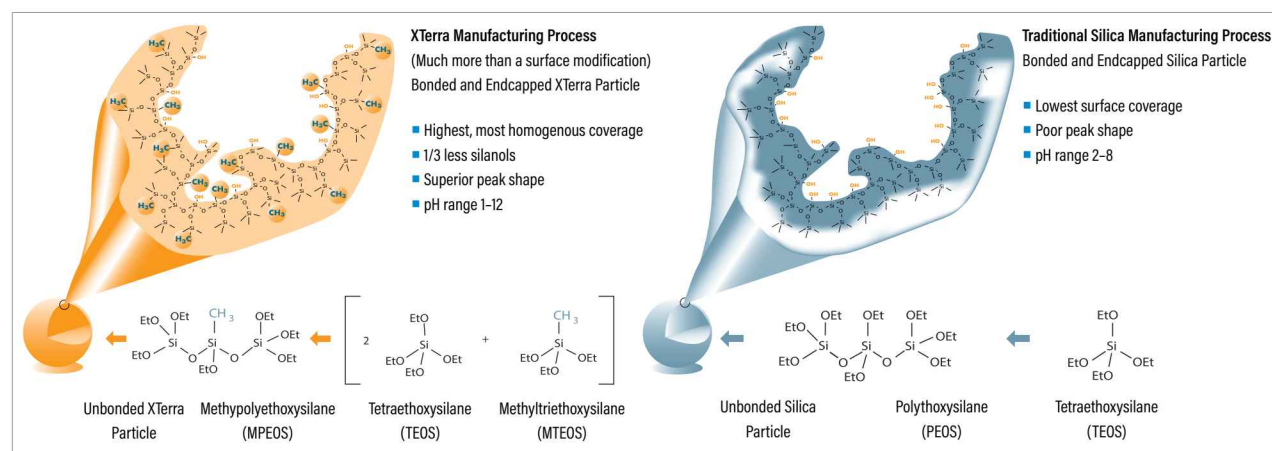
## XTerra Columns








XTerra MS, Shield RP, and Phenyl Columns combine the best properties of silica- and polymeric-bonded phases with patented Hybrid Particle Technology (HPT), which replaces one out of every three silanol groups with a methyl group during particle synthesis. HPT overcomes the limitations of silica-based materials while maintaining its best attributes for mechanical strength, chemical resistance, and easy scale up from analytical to preparative chromatography.



### Traditional Silica vs. XTerra Manufacturing Process



### Column Characteristics

	MS C <sub>18</sub> , 125 Å	Shield RP18, 125 Å	MS C <sub>8</sub> , 125 Å	Shield RP8, 125 Å	Phenyl, 125 Å
	HPLC: 3.5, 5 µm	HPLC: 3.5, 5 µm	HPLC: 3.5, 5 µm	HPLC: 3.5, 5 µm	HPLC: 3.5, 5 µm
Ligand Benefit	General purpose, efficient, low MS-bleed delivers good compound retentivity for acids, bases and neutrals	Highly efficient, provides alternate selectivity compared to straight chain C <sub>18</sub> , particularly with phenolic analytes. Compatible with 100% aqueous-phase composition	General purpose, efficient, low MS-bleed and similar selectivity to MS C <sub>18</sub> , but delivers less compound retentivity	Highly efficient and similar selectivity to Shield RP18, but delivers less compound retentivity	Alternate selectivity versus straight chain MS C <sub>18</sub> , alternate selectivity, particularly in regard to polyaromatic compounds
Particle/Ligand					
Carbon Load*	15.5%	15%	12%	13.5%	12%
Endcapped	Yes	Yes	Yes	Yes	Yes
USP Class No.	L1	L1	L7	L7	L11
Performance Standards	Neutrals QC Reference Material p/n: <a href="#">186006360</a>	Neutrals QC Reference Material p/n: <a href="#">186006360</a>	Neutrals QC Reference Material p/n: <a href="#">186006360</a>	Neutrals QC Reference Material p/n: <a href="#">186006360</a>	Neutrals QC Reference Material p/n: <a href="#">186006360</a>
Application Standards	Reversed-Phase QC Reference Material p/n: <a href="#">186006363</a>	Reversed-Phase QC Reference Material p/n: <a href="#">186006363</a>	Reversed-Phase QC Reference Material p/n: <a href="#">186006363</a>	Reversed-Phase QC Reference Material p/n: <a href="#">186006363</a>	Reversed-Phase QC Reference Material p/n: <a href="#">186006363</a>

\*Expected or approximate value.

 For XTerra 2.5 µm Columns, please refer to [pages 174-177](#).