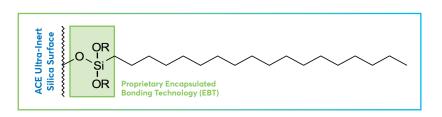
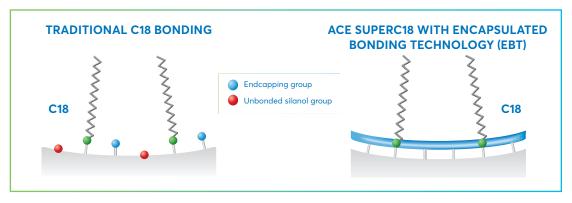
Avantor® ACE® novel chemistries

ACE SUPERC18

- Unique Encapsulated Bonding Technology (EBT) endcapped C18 phase provides pH stability from 1.5-11.5
- Ideal for method development - exploit selectivity changes at low, intermediate and high pH
- Ultra-low bleed for LC-MS compatibility
- Rapid column equilibration without memory effects



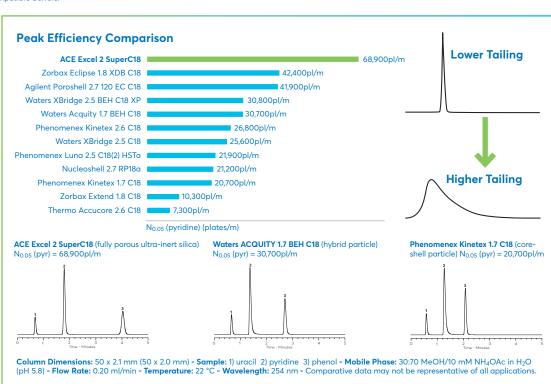


l	Phase	USP Listing	Functional group	Endcapped	Particle size (µm)	Pore size (Å)	Surface area (m²/g)	Carbon load (%)	pH range	100% aqueous compatibility
	SUPERC18	L1	Octadecyl	Yes (EBT)	1.7, 2, 3, 5, 10	90	400	14.8	1.5-11.5°	_

^a ACE SuperC18 is designed for use with LC-MS compatible buffers.

RECOMMENDED APPLICATIONS

- Starting point for method development
- Analytes differing in hydrophobicity
- Polar, moderately polar and non-polar analytes
- Uncharged acids and bases
- Ionized acids and bases in their non-ionized form by using appropriate pH



EXCELLENT ACIDIC STABILITY AT pH 1.8

ACIDIC FLOW CONDITIONS Column: ACE Excel 2 µm SuperC18, 50 x 2.1 mm Mobile Phase: 50:50 MeOH/0.1% TFA in H₂O (pH 1.8) Temperature: 40 °C Flow Rate: 0.20 ml/min Day 1 k (phenanthrene) = 16.91 Acidic Mobile Phase (pH 1.8) >20,000 column volumes (continuous flow) >2,000 injections Day 30 k (phenanthrene) = 16.85 **EVALUATION CONDITIONS** Sample: 1) uracil 2) dimethyl phthalate 3) toluene 4) biphenyl 5) phenanthrene Mobile Phase: 70:30 MeOH: $\rm H_2O$ Temperature: 22 °C Flow Rate: 0.20 ml/min Wavelength: 254nm

EXCELLENT BASIC STABILITY AT pH 10.7

