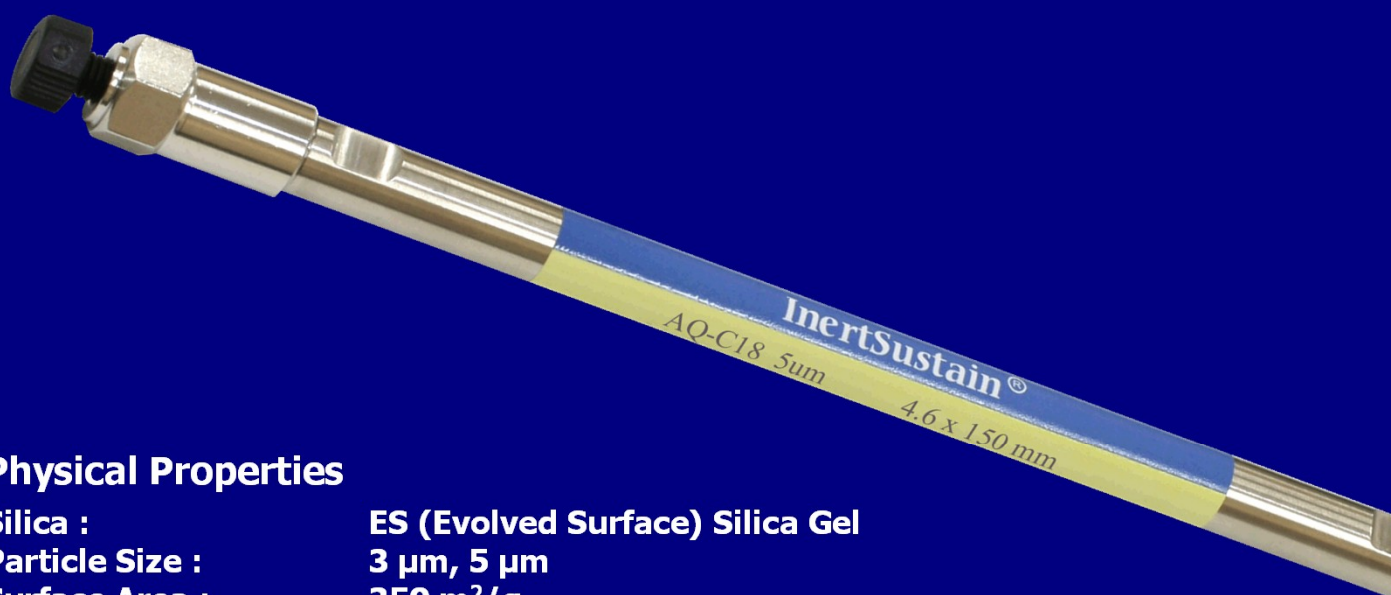


HPLC, LC/MS Columns

# InertSustain<sup>®</sup> AQ-C18

*Maximizing retention for highly polar compounds in reversed phase methods with highly aqueous mobile phases*



## Physical Properties

Silica :	ES (Evolved Surface) Silica Gel
Particle Size :	3 µm, 5 µm
Surface Area :	350 m <sup>2</sup> /g
Pore Size :	100 Å (10 nm)
Pore Volume :	0.85 mL/g
Bonded Phase :	Octadecyl Groups
End-capping :	Complete
Carbon Loading :	13.0 %
USP Code :	L1
pH Range :	1~10

GL Sciences Inc.

# InertSustain® AQ-C18

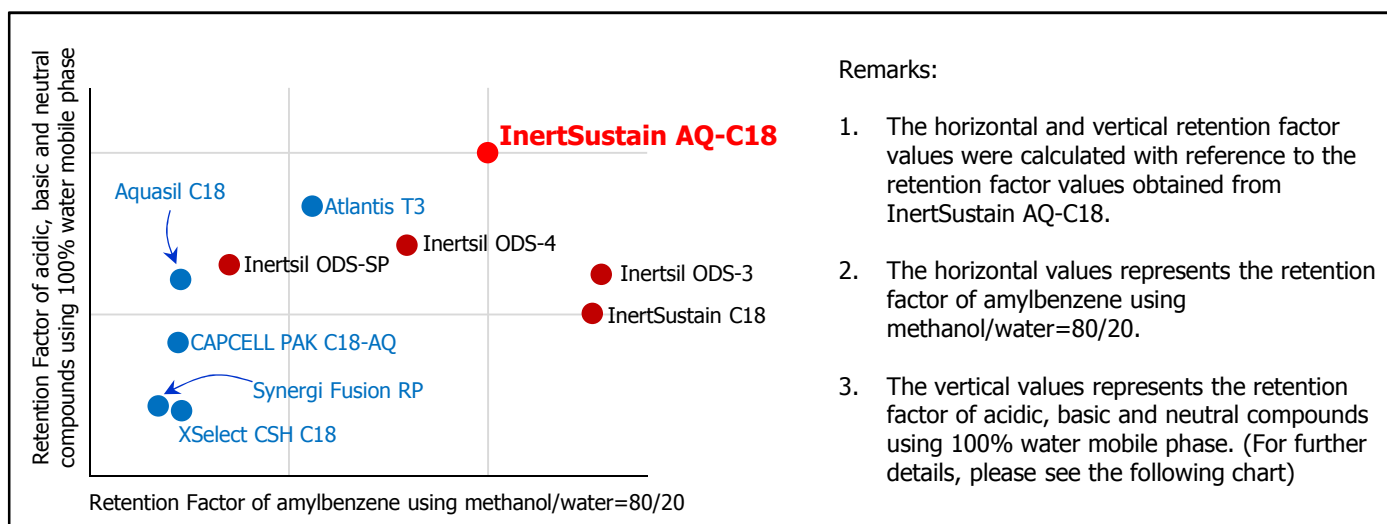
## Benefits

1. Exceptional retention for highly polar compounds (hydrophilic)
2. Highly inert packing material results in less tailing of peaks for virtually any type of analytes
3. Extreme resistance to low and high pH mobile phases
4. Endlessly reproducible from column-to-column and batch-to-batch

InertSustain AQ-C18 columns are designed to achieve strong retention for highly polar compounds, which is the most challenging goals in developing reversed phase methods. The optimization of bonding of the C18 groups at equal distance to the silica gel enable InertSustain AQ-C18 to offer significant retention for highly polar compounds even under water rich mobile phases.

As illustrated in the following plot, InertSustain AQ-C18 provided exceptional retention for highly polar compounds even under water rich mobile phases without dewetting or phase collapse.

## Retention Properties of InertSustain AQ-C18



## InertSustain AQ-C18 provided strong retention for all basic, neutral and acidic compounds under 100% water mobile phase

