

# HALO® PFAS, 2.7 µm COLUMN CARE & USE SHEET

# HALO®

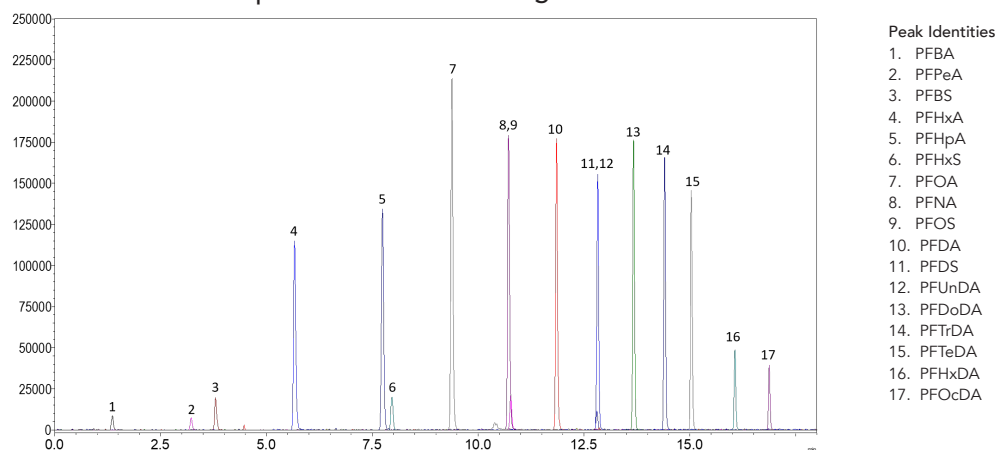
## Description

HALO® PFAS is a high-speed, high-performance liquid chromatography column based on Fused-Core® particle design. This particle design exhibits very high column efficiency due to the shallow diffusion paths in the 0.5-micron thick porous shell and the small overall particle size of 2.7-microns with a surface area of ~ 125 m<sup>2</sup>/g and an average pore size of 90 Å. The densely bonded, extensively end-capped ODS stationary phase of HALO® PFAS provides an application tested solution for PFAS analysis.

## Operation Guidelines

- The direction of flow is marked on the column label.
- Reversed flow may be used to attempt removal of inlet plugging or contamination.
- A new column contains a mixture of acetonitrile and water. Initial care should be taken to avoid mobile phases that are immiscible with this mixture or could cause a precipitate.
- Water and all common organic solvents are compatible with HALO® PFAS columns.
- HALO® PFAS columns are best used at temperatures below 60 °C for maximum column life.
- Mobile phase pH for HALO® PFAS columns is best maintained in the range of pH = 2 to 9 for maximum column stability.
- HALO® PFAS columns are stable to operating pressures up to 600 bar (9000 psi).

## Representative Chromatogram



\*For method specific details or questions about your specific HALO® PFAS lot, please contact us at [support@advanced-materials-tech.com](mailto:support@advanced-materials-tech.com).

## Column Care & Storage

To maximize column life, ensure that samples and mobile phases are particle-free. The use of a HALO® PFAS Delay column is recommended to be placed before the sample injector to delay PFAS system contamination. Should the operating pressure of the column suddenly increase beyond normal levels, reversing the flow direction of the column may be attempted to remove debris on the inlet frit.

To remove strongly retained materials from the column, flush the column in the reverse direction with very strong solvents such as 100% of the organic component of the mobile phase in use. A mixture (95/5 v/v) of dichloromethane and methanol is often effective at this task.

Long-term storage of silica-based, reversed-phase columns is best in 100% acetonitrile. Columns may be safely stored for short periods (up to 3 or 4 days) in most common mobile phases. However, when using buffers, it is best to protect both the column and the HPLC equipment and remove the salts by flushing the column with the same mobile phase without the buffer (e.g., when using 60/40 ACN/buffer, flush the column with 60/40 ACN/H<sub>2</sub>O) to eliminate any danger from corrosion from the salts while providing rapid re-equilibration of the column with the original mobile phase. Before storing the column, the end-fittings should be tightly sealed with the end-plugs that came with the column to prevent the packing from drying.

## Safety

- HPLC columns are for laboratory use only. Not for drug, household, or other use.
- Users of HPLC columns should be aware of the toxicity or flammability of the mobile phases chosen for use with the columns. Precautions should be taken to avoid contact and leaks.
- HPLC columns should be used in well-ventilated environments to minimize concentration of solvent fumes.

## Ordering Information & Technical Support

- For ordering information or for technical support on this product, please contact us at [support@advanced-materials-tech.com](mailto:support@advanced-materials-tech.com) or [halocolumns.com](http://halocolumns.com) or contact your local HALO® distributor.



[halocolumns.com](http://halocolumns.com)

