

Normal Phase HPLC Syringe Filter Recommendation - Tech Information

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Overview

Normal Phase Chromatography (NP) relies heavily on strong organic solvents such as hexane, heptane, dichloromethane, isopropanol, and ethyl acetate. These solvents require filtration through membranes that will not swell, dissolve, leach extractables, or interact with the sample.

PTFE (polytetrafluoroethylene) is the industry-standard membrane for NP HPLC due to its superior solvent compatibility and inert chemical profile. This ensures cleaner baselines, protected instrumentation, and reproducible chromatographic results.

Recommended Membrane for Normal Phase HPLC

For NP applications, PTFE is the optimal membrane. Its properties make it uniquely suited for environments where aggressive, non-aqueous solvents are used:

Why PTFE Is the Best Choice

- Exceptional resistance to non-polar and strong organic solvents
- Chemically inert; will not interact with analytes or mobile phases
- High temperature and pressure tolerance
- Very low extractable levels, preventing contamination of chromatograms
- Ideal for sample prep, mobile phase filtration, and solvent cleaning steps

PTFE maintains structural integrity even when exposed to harsh mobile phases—something other membrane types (Nylon, PVDF, PES, CA, CN) cannot consistently withstand.

Ordering Information

For detailed ordering options, specifications, and product images for AQ™ brand PTFE syringe filters, click below:

- 🖱️ AQ™ PTFE Syringe Filter Ordering Information: Click [HERE](#) for AQ™ brand PTFE syringe filter ordering information and pictures.
- AQ™ filters are available in multiple pore sizes and diameters, depending on your workflow requirements.

Technical Documentation

Attachment: MICROSOLV filters equivalency study pdf [Download File](#)

This study provides comparative data across membrane types, performance characteristics, and solvent compatibility, supporting best practices for NP chromatography sample preparation.

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