

## Thickness of the SS Filter Element in the Cogent Column Filters - Tech Information

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### Overview

Cogent Column Filters use a precision-engineered stainless-steel filter element (commonly referred to as the “screen”) to provide reliable and consistent particulate protection for HPLC columns.

Understanding the physical characteristics of this component helps users better evaluate flow performance, durability, and system compatibility.

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### Stainless-Steel Filter Element Thickness

The stainless-steel filter element inside the pre-column Cogent Column Filters has an approximate thickness of 0.039 inches.

This thickness provides:

- Mechanical strength to withstand high-pressure environments
- Dimensional stability for consistent filtration performance
- Durability during normal installation and routine operation

Together, these attributes ensure that the filter element performs reliably throughout its service life without deforming under typical HPLC system pressures.

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### Practical Notes

- The screen thickness contributes to uniform particulate retention and minimal flow disturbance.
- For best performance and frit longevity, replace the entire filter when backpressure increases or signs of clogging appear.
- This specification applies to standard Cogent pre-column filter models.

