

Frit Availability Titanium or PEEK 0.5 μm - Sales and Marketing

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Do You Offer a 0.5 μm Titanium or PEEK Frit for PEEK Column Hardware?

Short Answer: Yes—MicroSolv does offer a 0.5 μm frit made of titanium, but a 0.5 μm frit in PEEK is **not** available.

Full Explanation

Available Frit Types

The standard frit options supplied with PEEK HPLC column hardware are:

- 5 μm stainless-steel frits
- 5 μm PEEK frits

However, for applications requiring finer porosity, MicroSolv offers:

- 0.5 μm titanium frits ✓
- 0.5 μm PEEK frits ✗ (not available)

Titanium is selected for the 0.5 μm frit due to its mechanical strength and compatibility at this extremely fine porosity—PEEK cannot maintain structural integrity at this pore size.

When to Use a 0.5 μm Titanium Frit

A 0.5 μm frit is typically chosen when:

- You want to prevent particulate contamination in very sensitive separations.
- You are running very low-flow applications or narrow-bore formats where debris can easily cause performance instability.
- The method requires minimal risk of sample interaction with stainless steel, while still maintaining robustness.

Titanium provides:

- Excellent solvent and pH compatibility
 - High pressure tolerance
 - Very low surface reactivity
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Compatibility with PEEK Hardware

Even though the frit itself is titanium, it is fully compatible with PEEK column hardware designs. The frit seats correctly and maintains a leak-free seal using standard PEEK end fittings.

Ordering Information

To obtain a 0.5 μm titanium frit:

- Visit the PEEK Column Hardware Product Page (linked in the original KB article).
- Or contact MicroSolv Customer Service for assistance:
 - Email: customers@mtc-usa.com
 - Phone: (732) 380-8900

If a PEEK-based 0.5 μm frit becomes available in the future, this article will be updated accordingly.

[PEEK Column Hardware Product Page](#)



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