

Maximum recommended flow rates for the different filter pore sizes. – Tech Information

The flow rates vary depending on the solvent and its viscosity, the temperature, and the interaction of the solvent with the filter material. Over time, the pores may become clogged, resulting in a lower flow rate. For all frits, the flow rate is determined not only by the pore size but also by the number of pores. A frit with a single pore of 2 μm is considered to be a 2 μm frit. However, if the same frit has millions of pores, it remains a 2 μm frit but with a significantly higher flow rate.

Below is a rule of thumb for flow rates, in theory, assuming the frit is perfectly precise with exact pore sizes.

As a rule of thumb, never exceed the pore size with the flow rate:

- 2 μm = 2 mL/min
- 2.5 μm = 2.5 mL/min
- 5 μm = 5 mL/min
- 10 μm = 10 mL/min

This holds for most applications, but be cautious with solvents of higher viscosity.

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