

SepaFlash® Column Overview for iLOK® Series

SepaFlash® columns are an excellent alternative to the other flash columns available on the market, and you will enjoy fast, easy purification and scale-up from milligram to dozens of grams. SepaFlash® columns offer the following advantages:

Reliable and Reproducible

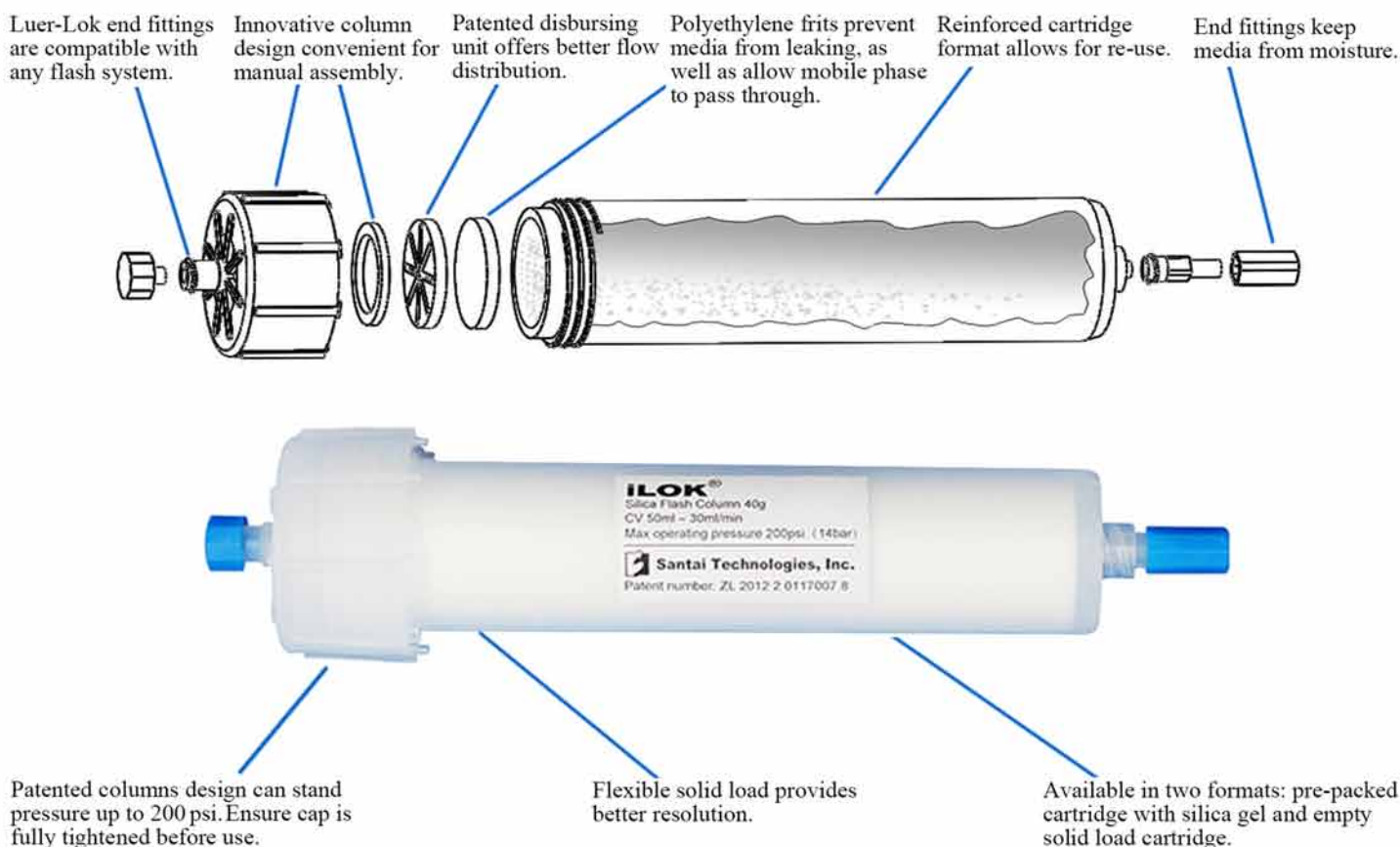
SepaFlash® iLOK® cartridges are offered in two formats: iLOK® pre-packed cartridge and iLOK® empty solid load cartridge. iLOK® pre-packed cartridges are produced with proprietary dry packing technique for higher resolution and reproducibility. They feature patent design with standard Luer-Lok end fittings for quick, easy connection to commercially available flash systems on the market. The quality is consistent for SepaFlash® columns over ten years, to ensure that the chemists are able to complete the everyday purification with pleasure.

Versatile

SepaFlash® iLOK® cartridges are available from 4 gram up to 330 gram column size allowing purification from 10 milligram up to 33 grams. They offer users convenience for manual assembly, allowing for a flexible sample loading method: solid load and direct liquid injection.

Safe

Extra thick walls on SepaFlash® columns are pressure rated for safe operation. Reinforced cartridge body ensures that the column is able to withstand the pressure capability of modern flash systems and not leak valuable compound.



iLOK® Series

SepaFlash® iLOK® flash cartridges offer users convenience for manual assembly, allowing for a flexible sample loading method: solid load and direct liquid injection. The series is offered in two formats: iLOK® flash cartridge pre-packed with ultra-pure silica gel (40–63 µm, 60 Å) and iLOK® empty solid load cartridge with screw cap, frits, disbursing unit, O-ring and end tips.



- ※ Innovative column design convenient for manual assembly and column stacking
- ※ Available in wide range of cartridge sizes for any situation
- ※ Reinforced cartridge body with maximum operating pressure up to 200 psi

iLOK® Flash Cartridges (pre-packed, ultra-pure irregular silica, 40–63 µm, 60 Å):
(surface area 500 m²/g, pH 6.5–7.5, loading capacity 0.1–10%)

Item Number	Column Size	Sample Size	Units/Box	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SD-5101-004	4 g	4 mg–0.4 g	20	15–40	115.1	12.8	200/13.8
SD-5101-012	12 g	12 mg–1.2 g	18	30–60	137.8	21.4	200/13.8
SD-5101-025	25 g	25 mg–2.5 g	12	30–60	188.2	21.6	200/13.8
SD-5101-040	40 g	40 mg–4.0 g	12	40–70	188.7	26.8	200/13.8
SD-5101-060	60 g	60 mg–6.0 g	12	60–150	173.3	37.0	200/13.8
SD-5101-080	80 g	80 mg–8.0 g	10	50–100	263.5	31.2	200/13.8
SD-5101-100	100 g	100 mg–10 g	6	80–220	146.6	60.4	150/10.3
SD-5101-120	120 g	120 mg–12 g	10	60–150	277.7	37.4	200/13.8
SD-5101-220	220 g	220 mg–22 g	6	80–220	218.5	60.4	150/10.3
SD-5101-330	330 g	330 mg–33 g	5	80–220	271.6	60.6	150/10.3

- ※ Compatible with all flash chromatography systems, for example ISCO, Biotage, Yamazen, etc.

iLOK® Empty Solid Load Cartridges:

(iLOK® empty solid load cartridge with screw cap, frits, disbursing unit, O-ring and end tips)

Item Number	Description	Units/Box	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SD-0000-004	Empty solid load cartridge, 4 g	optional	115.1	12.8	200/13.8
SD-0000-012	Empty solid load cartridge, 12 g	optional	137.8	21.4	200/13.8
SD-0000-025	Empty solid load cartridge, 25 g	optional	188.2	21.6	200/13.8

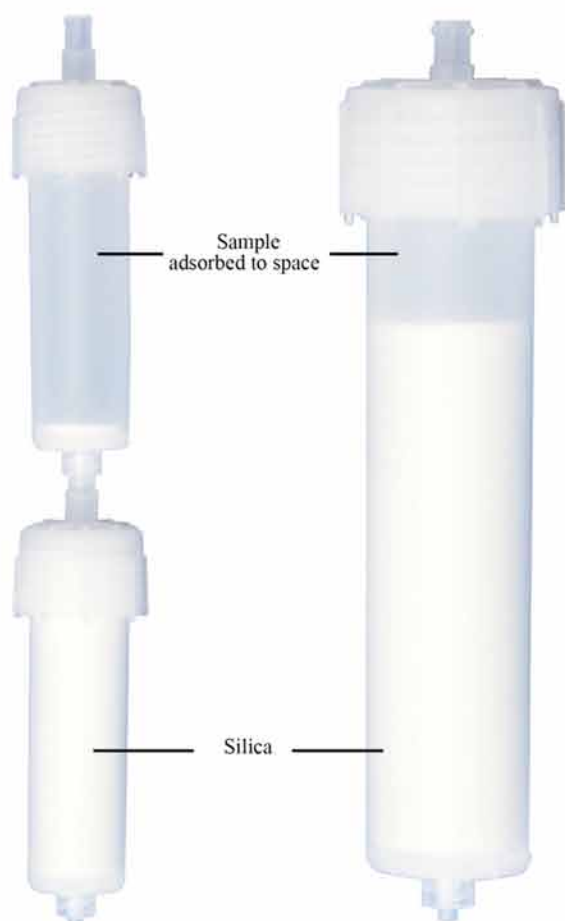
SD-0000-040	Empty solid load cartridge, 40 g	optional	188.7	26.8	200/13.8
SD-0000-060	Empty solid load cartridge, 60 g	optional	173.3	37.0	200/13.8
SD-0000-080	Empty solid load cartridge, 80 g	optional	263.5	31.2	200/13.8
SD-0000-100	Empty solid load cartridge, 100 g	optional	146.6	60.4	150/10.3
SD-0000-120	Empty solid load cartridge, 120 g	optional	277.7	37.4	200/13.8
SD-0000-220	Empty solid load cartridge, 220 g	optional	218.5	60.4	150/10.3
SD-0000-330	Empty solid load cartridge, 330 g	optional	271.6	60.6	150/10.3

※ Compatible with all flash chromatography systems, for example ISCO, Biotage, Yamazen, etc.

Solutions for solid loading

Solid sample loading is a useful technique to load sample to be purified onto a column, particularly in the case of low-solubility samples. On this occasion, iLOK® flash cartridge is a very suitable choice.

The sample is dissolved in a suitable solvent and absorbed onto diatomaceous earth. After removal of the residual solvent, the adsorbent is put on top of partly filled cartridge or into an empty cartridge.



Optional accessories and bulk silica gel

iLOK® empty solid load cartridge with screw cap, frits, disbursing unit, O-ring and end tips with optional bulk silica gel.

