

SepaFlash[™] Columns Family

Enjoy precise separations; our versatile series, fully compatible with all flash chromatography instruments.



Simplify your purification, maximize your efficiency!

Santai Science Inc.

Introduction

Introduction

Welcome to "SepaFlash™ Columns Brochure", your comprehensive guide to Santai Science's advanced chromatography technologies. This brochure showcases our innovative flash chromatography columns designed to enhance purification efficiency and reliability.

Table of Contents

| Introduction | |
|---|----------|
| Explore the Santai Science Portfolio | 3 |
| About Santai | 4 |
| SepaFlash™ Columns Family • Why Choose SepaFlash™ Columns • Tips for Using SepaFlash™ Columns • SepaFlash™ Columns Compatibility • Comparison of SepaFlash™ Irregular Silica Columns vs Competition | 5 |
| Why Choose SepaFlash™ Columns | 6 |
| Tips for Using SepaFlash™ Columns | 7 |
| SepaFlash™ Columns Compatibility | 7 |
| Comparison of SepaFlash™ Irregular Silica Columns vs Competition | 8 |
| Maximize Efficiency & Savings with SepaFlash™ Spherical Silica Columns | 9 |
| SepaFlash™ Available Sorbents | 10 |
| SepaFlash™ Standard & Large Size Series | 12 |
| SepaFlash™ HP & Functionalized Series | 16 |
| Maximize Efficiency & Savings with SepaFlash™ Spherical Silica Columns SepaFlash™ Available Sorbents SepaFlash™ Standard & Large Size Series SepaFlash™ HP & Functionalized Series SepaFlash™ iLOK™ & iLOK™-SL Series Ordering Information | 20 |
| Contacting to form at the | 24 |

Explore the Santai Science Portfolio

Explore the Santai Science Portfolio

At Santai Science, we take pride in offering a diverse portfolio of advanced separation and purification solutions tailored to meet the evolving needs of scientists and professionals worldwide. From innovative chromatography systems to high-performance consumables, our products are designed to deliver precision, efficiency, and reliability. Browse below to discover how our cutting-edge technologies can empower your research and applications.

SepaBean[™] machines & SepaFlash[™] Columns

| Product Line | SepaBean™ machines | SepaFlash™ FP LT-ELSD | SepaFlash™ Columns | |
|--------------|---|--|--|--|
| Picture | | | | |
| Description | SepaBean™ machines deliver efficient and user-friendly flash chromatography solutions for diverse applications. Available Models: SepaBean™ machine U SepaBean™ machine T SepaBean™ machine SepaBean™ machine SepaBean™ machine SepaBean™ machine SepaBean™ machine L | The SepaFlash™ FP LT-ELSD is a low-temperature evaporative light scattering detector, ideal for non-chromophoric analytes like carbohydrates, lipids, and polymers. It ensures high sensitivity, low noise, and optimal detection of thermally unstable compounds, compatible with all SepaBean™ models. | SepaFlash™ columns deliver precise, durable, and efficient purification for diverse chromatography applications. Available Series: SepaFlash™ Standard SepaFlash™ Large Size SepaFlash™ HP, Bio & Bonded SepaFlash™ iLOK™ & iLOK™-SL SepaFlash™ iLOK™ Large-Size | |

Other SepaFlash™ Products

| Product Line | SepaFlash™ Ultra-Pure Bare Silica Gels | SepaFlash™ Ultra-Pure Bonded Silica Gels | SepaFlash™ TLC Plates |
|---------------------|--|--|---|
| Picture | Performance of the control of the co | Sind of the control o | |
| Description | SepaFlash™ Ultra-Pure bare silica gels in bulk provide high-quality phases for chromatography, available in both irregular and spherical shapes. With particle sizes ranging from 10 μm to 200 μm and pore diameters from 50 Å to 300 Å, these silicas meet diverse application needs. They are offered in convenient 1 kg, and 25 kg containers. | SepaFlash™ Ultra-Pure bonded silica gels offer versatile chromatography solutions in irregular or spherical shapes, with particle sizes from 10 μm to 40 - 75 μm and pore diameters of 50 Å to 300 Å. Available in reversed phase, normal phase, ion-exchange, HILIC, and alumina phases. | SepaFlash™ TLC plates are manufactured with high-quality media to match the sorbents in SepaFlash™ flash columns. This alignment ensures greater reproducibility in method development. Available with aluminum and glass backings, these plates come in a wide range of sizes from 2.5 x 7.5 cm to 20 x 20 cm, supporting both analytical and preparative chromatography needs. |



About Santai

Discover Santai Technologies

Founded in 2004, Santai Technologies is a leading technology company dedicated to advancing separation and purification tools. With over 20 years of expertise, we have become a trusted partner for professionals and scientists across the pharmaceutical, biotechnology, fine chemicals, natural products, and petrochemical industries.

Santai is renowned worldwide for its outstanding flash chromatography instruments and consumables, setting new benchmarks for efficiency, precision, and reliability in the global market.



Santai: 20 Years of Innovation in Chromatography

For two decades, Santai has been a leader in chromatography innovation, providing for scientists worldwide. With our advanced SepaBean™ machines and SepaFlash™ innovation and quality, continually empowering researchers with more effective pu

Santai Technologies was founded to develop separation and chromatography solutions.



2004 2005



The SepaFlash™ Standard Series was launched, leveraging proprietary packing technology for enhanced performance.

The SepaFlash™ HP Series has been launched, offering enhanced pressure resistance.



2009 2013



The SepaFlash™ iLOK™ has been launched, providing the convenience of manual assembly and flexible sample loading networking capab options.

The SepaFlash™ and SepaFlash™ have been launc



2015



recognized as "High-tech Enterpr

The SepaBe launched chromatogr

About Santai Science

Established in 2018 as a sister company of Santai Technologies, Santai Science is headquartered in Montreal, Canada. Its core mission centers on the commercialization of cutting-edge separation and purification tools, including product demonstrations and specialized services.

Santai Science also plays a vital role in providing customer training, delivering technical support, and managing order processing and shipment directly from its Montreal office.

Our Extensive Global Reach

Santai operates and maintains warehousing services across America, Asia, India, and Europe. This strategic global presence ensures that our products and services are readily accessible and efficiently delivered to clients around the world.

cutting-edge solutions that streamline purification processes columns enhancing efficiency, we remain committed to rification technologies.



2024-2025

Bonded Series hed.



Standard Size 3 kg | Santai Science was founded in Canada, alongside the iLOK™-SL flash column with 15 % free space for solid loading.



2018 2021





2022

2016





The 2nd generation SepaBean™ machine is launching, offering enhanced performance.



an™ machine was as a unique flash aphy system with ilities and built-in intelligence.



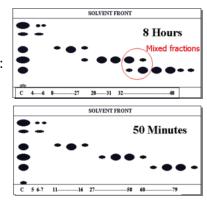
The SepaBean[™] machine L was launched, featuring large 5 kg and 10 kg flash columns designed for the pilot-scale market.

Why Choose SepaFlash™ Columns

Advantages of SepaFlash™ Columns

Compared to traditional manual glass column chromatography, automatic flash chromatography using SepaFlash™ column offers several key advantages such as:

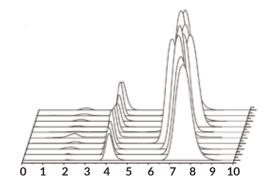
- It significantly reduces separation and purification times, as demonstrated in the following example on the right.
- Automatic flash chromatography saves time and reduces solvent consumption, making the process more efficient.
- Pre-packed SepaFlash™ flash columns minimize risks to human health and the environment, ensuring a safer and more sustainable workflow.



Key Features

Precision Packing and Reliable Reproducibility

Since 2004, SepaFlash™ columns have delivered consistent performance through advanced semi-automated packing technology, ensuring precision, efficiency, and robust lot-to-lot reproducibility. With low fines, these columns create a stable separation environment, minimizing contamination risks and maintaining reliability.



Experimental Conditions on SepaFlash™ Silica 120 g:
Sample: acetophenone & p-methoxyacetophenone (1.5 mL)
Mobile Phase: 80 % hexane and 20 % ethyl acetate
Flow Rate: 85 mL/min
Wavelength: 254 nm

Superior Quality Adsorbents

SepaFlash™ columns feature high-performance adsorbents, including silicas and aluminas, with custom packing options. Tight particle distribution prevents leaching, channeling, and tailing, while controlled water activity ensures reliability.

Innovative Design and Construction

These leak-free, pre-packed polypropylene cartridges ensure safety and reliability. With universal Luer-Lok® fittings, they offer seamless compatibility with various flash systems.

Product Versatility: a Range of Series for Every Needs

- Standard Series: ideal for general-purpose applications.
- Large Size Series: designed for high-capacity separations, meeting the needs of large-scale applications.
- **HP Series:** high-performance options for demanding separations.
- Functionalized (Reversed Phase & Bonded) Series: tailored for specific sorbent requirements and optimized for separating both non-polar and polar samples.
- iLOK™ & iLOK™-SL Series: advanced locking technology for enhanced ease of use.

By combining superior materials, innovative technology, and a diverse product range, SepaFlash™ columns deliver exceptional performance, reliability, and flexibility for a wide variety of chromatographic applications.

Tips for Using SepaFlash™ Columns

Introduction

To get the most out of your SepaFlash™ columns, it's important to follow best practices tailored to each column type and application. These tips will help ensure optimal performance, enhance column longevity, and maintain safety during use, whether working with silica, alumina, or bonded silica flash columns.

- Silica flash columns: while SepaFlash™ silica flash columns are designed for single use, they can be reused with proper handling without compromising performance. Ensure thorough cleaning and drying between uses to maintain efficiency.
- Alumina flash columns: these columns are ideal for samples that are sensitive or prone to degradation on silica gel, offering an alternative for challenging separations.
- Bonded silica flash columns: this series provides a wide range of sorbents to meet diverse user requirements. With correct storage and handling, these columns can be reused multiple times without performance loss.
- Safety guidelines: never exceed the maximum pressure indicated on the column to avoid damage or accidents.
- **Optimal eluent preparation:** to ensure the best performance, filter all eluents through a 0.45 μm filter membrane to remove impurities and prevent blockages.

By following these guidelines, you can maximize the efficiency, longevity, and safety of your SepaFlash™ columns while achieving consistent, high-quality results.

SepaFlash™ Columns Compatibility

SepaFlash™ Columns are engineered for universal compatibility with a broad range of flash chromatography systems available on the market. Equipped with Luer-Lok® end fittings, these columns guarantee a secure and leak-free connection, ensuring seamless integration regardless of the equipment brand or model.

This universal design makes SepaFlash™ columns an ideal choice for laboratories with diverse chromatography systems, eliminating the need for specialized adapters or additional fittings. Whether you are using:

- Santai Science® SepaBean™
- Biotage® Isolera® & Selekt®
- Teledyne Isco® CombiFlash®

- Advion-Interchim® puriFlash®
- Buchi® Pure®

SepaFlash™ columns deliver reliable performance without compromise.

Designed to meet the needs of modern laboratories, SepaFlash™ columns offer versatility, ease of use, and high-quality performance, as expected from Santai Science.

Note: depending on the equipment used, an adapter may be required to use the SepaFlash^{M} Large Size Series. Please refer to the application note for further details.



BLL-0304: Luer connector kit for large columns (800 g, 1,600 g, 3 kg, and 5 kg)



BLL-NPT635-XXX: 10 kg cartridge adaptor available for 1/2, 3/8, 3/16, and 1/8 inches



Comparison of SepaFlash™ Irregular Silica Columns vs Competition

SepaFlash^{M} columns deliver superior performance compared to competing products, attributed to their exceptional irregular silica gel (40 - 63 μ m, 60 Å) quality and advanced packing technology. For a deeper understanding, examples showcasing their outstanding performance are presented below.

Better Resolution with SepaFlash™

Santai conducted a performance evaluation of SepaFlash™ columns against well-known brands. The results demonstrated that SepaFlash™ columns consistently outperformed the competitors, offering superior

peak-to-peak resolution.

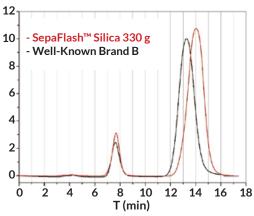
Experimental Conditions

| Experiment using SepaFlash™ Irregular Silica Columns | | | | |
|--|---|--|--|--|
| Column Size | Experiment #1: 120 g Experiment #2: 330 g | | | |
| Sample | Acetophenone & p-methoxyacetophenone | | | |
| Mobile Phase | 80 % hexane and 20 % ethyl acetate | | | |
| Flow Rate | Experiment #1: 85 mL/min Experiment #2: 120 mL/min | | | |
| Sample Size | Experiment #1: 1.5 mL Experiment #2: 5 mL | | | |
| Wavelength | 254 nm | | | |

Observed Chromatographic Parameters

| Brand | t _R | N | Rs | T | | | |
|------------------|----------------|-----|------|------|--|--|--|
| Experiment #1 | | | | | | | |
| SepaFlash™ 120 g | 4 min | 519 | 3.54 | 1.13 | | | |
| Brand A 120 g | 4 min | 408 | 2.73 | 0.92 | | | |
| Experiment #2 | | | | | | | |
| SepaFlash™ 330 g | 7.7 min | 539 | 3.54 | 0.97 | | | |
| Brand B 340 g | 7.6 min | 510 | 3.11 | 1.11 | | | |

10 - SepaFlash™ Silica 120 g - Well-Known Brand A 6 4 2 - T (min)



Better Separation with SepaFlash™

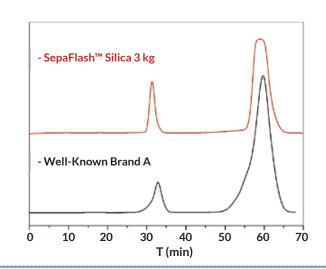
This experiment evaluates the separation performance of SepaFlash™ 3 kg columns versus a competitor's 3 kg column. The results demonstrate superior resolution and efficiency for SepaFlash™ under identical conditions.

Experimental Conditions

| Experiment using SepaFlash™ Irregular Silica Columns | | | |
|--|--------------------------------------|--|--|
| Column Size | 3 kg | | |
| Sample | Acetophenone & p-methoxyacetophenone | | |
| Mobile Phase | 80 % hexane and 20 % ethyl acetate | | |
| Flow Rate | 250 mL/min | | |
| Sample Size | 40 mL | | |
| Wavelength | 254 nm | | |

Observed Chromatographic Parameters

| Brand | t _R | N | Rs | T |
|-----------------|----------------|-----|------|------|
| SepaFlash™ 3 kg | 31 min | 890 | 5.13 | 1.20 |
| Brand A 3 kg | 33 min | 743 | 4.00 | 0.80 |



Maximize Efficiency & Savings with SepaFlash™ Spherical Silica Columns

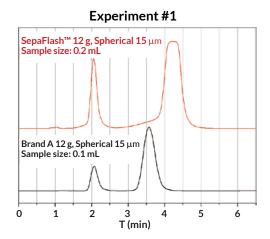
SepaFlash™ Spherical Silica Columns offer high loading capacity, allowing you to purify larger sample amounts in a single run. This efficiency translates to lower reagent costs, reduced solvent consumption, and minimized column usage, ultimately making your chromatography process more cost-effective and environmentally friendly. Experience superior performance and streamlined workflows with SepaFlash™.

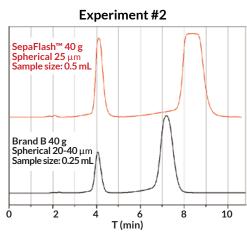
Higher Loading Capacity with SepaFlash™ Spherical Silica Columns

This comparison highlights the superior performance of SepaFlash™ Spherical Silica Columns against competitor columns under the experimental conditions presented in the table below. SepaFlash™ columns offer significant advantages, including high loading capacity, superior resolution, and enhanced separation efficiency. These features not only reduce solvent consumption and minimize purification runs but also provide a cost-effective solution for optimizing your purification workflows.

Experimental Conditions

| Experiment using SepaFlash™ Spherical Silica Columns | | | |
|---|--------------------------------------|--|--|
| Column | Experiment #1: 40 g | | |
| Size | Experiment #2: 12 g | | |
| Particle | Experiment #1: 25 μm | | |
| Size | Experiment #2: 15 μm | | |
| Sample | Acetophenone & p-methoxyacetophenone | | |
| Mobile | 80 % hexane and | | |
| Phase | 20 % ethyl acetate | | |
| Wavelength | 254 nm | | |



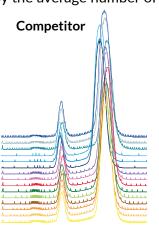


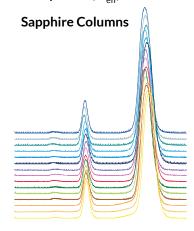
Greater Performance with SepaFlash™ Sapphire Compared to a Gold Series

This experiment compares the performance of the Sapphire series with a Gold series from a competitor. The results demonstrate that the Sapphire columns outperformed the Gold series, delivering a better resolution and more than 50 % higher column efficiency, as measured by the average number of effective plates (N_{eff}).

Experimental Conditions

| Experiment using SepaFlash™ Sapphire Spherical Silica Columns | | | | |
|--|--------------------------------------|--|--|--|
| Column Size | 12 g | | | |
| Sample | Acetophenone & p-methoxyacetophenone | | | |
| Mobile Phase | 80 % hexane and 20 % ethyl acetate | | | |
| Flow Rate | 20 mL/min | | | |
| Sample Size | 0.2 mL | | | |
| Wavelength | 254 nm | | | |





Average Observed Chromatographic Parameters

| Parameters | Competitor | Sapphire | Sapphire Performance Conclusion |
|--------------------------------------|------------|----------|---------------------------------|
| Resolution (Rs) | 2.79 | 3.47 | Much better separation |
| Effective Plates (N _{eff}) | 73 | 114 | Significantly more efficient |
| Tailing Factor (T) | 1.06 | 1.05 | Slightly better peak shape |

SepaFlash™ Column Available Sorbents

Irregular Bare Silica Gels & Aluminas

SepaFlash™ Standard & Large Size columns are available with both bare irregular silica and alumina, offering versatile application options. The table below outlines the sorbent specifications.

| D | Irregular Bare Silica Gels and Aluminas | | | | | | |
|--------------------------|---|-----------------------|----------------------------|----------------------------|----------------------------|--|--|
| Parameters | 5101 🖒 | 5102 | 8601, -A* | 8601, -B* | 8601, -N* | | |
| Category Name | Standard | Fusion | Standard | Standard | Standard | | |
| Phase | Bare Silica | Bare | Acidic Alumina | Basic Alumina | Neutral Alumina | | |
| Particle Shape | Particle Shape Irregular Irregular | | Irregular | Irregular | Irregular | | |
| Particle Size 40 - 63 μm | | 25 - 40 μm | 50 - 75 μm | 50 - 75 μm | 50 - 75 μm | | |
| Pore Diameter | 60 Å | 60 Å | 55 Å | 55 Å | 55 Å | | |
| Typical Surface Area | 500 m ² /g | 500 m ² /g | $155 \text{ m}^2/\text{g}$ | $155 \text{ m}^2/\text{g}$ | $155 \text{ m}^2/\text{g}$ | | |
| рН | 6.5 - 7.5 | 6.5 - 7.5 | 3.8 - 4.8 | 9.0 - 10.0 | 6.5 - 7.5 | | |
| Loading Capacity | 0.1 - 10 % | 0.1 - 15 % | 0.1 - 4 % | 0.1 - 4 % | 0.1 - 4 % | | |

^{*} Added at the end of the product number

Reversed Phase and CannFlash™ Series

The SepaFlash™ Reversed Phase and CannFlash™ Series columns provide a variety of options with both irregular and spherical functionalized silica gel. The table below presents detailed specifications for each phase, as well as the available column formats for each type of sorbent.

| Davamatava | Reversed Phase and CannFlash™ Series | | | | | | |
|------------------|--------------------------------------|----------------|----------------|-----------------|----------------|----------------|--|
| Parameters | 8201, -IR* | 5223, -SP* | 8222, -SP* 😭 | 5222, -SP(THE)* | 5221, -SP* | 5223, -SP(AQ)* | |
| Category Name | Reversed Phase | Reversed Phase | Reversed Phase | Reversed Phase | Reversed Phase | Reversed Phase | |
| Phase | C18 | C18 | C18 | C18 THE | C18 | C18 Aqueous | |
| Particle Shape | Irregular | Spherical | Spherical | Spherical | Spherical | Spherical | |
| Particle Size | 40 - 63 μm | 15 μm | 20 - 45 μm | 20 - 45 μm | 40 - 75 μm | 15 μm | |
| Pore Diameter | 60 Å | 100 Å | 100 Å | 100 Å | 100 Å | 100 Å | |
| Typical Loading | 17 % Carbon | 17 % Carbon | 17 % Carbon | 18.5 % Carbon | 17 % Carbon | 10 % Carbon | |
| Endcapping | Yes | Yes | Yes | Yes | Yes | Yes | |
| Loading Capacity | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 1.5 % | 0.1 - 2 % | |

^{*} Added at the end of the product number



Bonded Silica Gels

Additional bonded silica gels are available in SepaFlash™cartridges, enabling a wide range of applications.

| Dawanatana | | Bio and Bonded Series | | | | | | |
|-------------------------|----------------|-----------------------|----------------|--------------------------|--------------------------|----------------|--|--|
| Parameters | BIO-5272, -SP* | BIO-5872, -SP* | BIO-5472, -SP* | 5502, -SP(H)* | 5501, -IR* | 5922, -SP* | | |
| Category Name | Bio | Bio | Bio | Bonded | Bonded | Bonded | | |
| Phase | C18 | C8 | C4 | Amino (NH ₂) | Amino (NH ₂) | Diol (HILIC-D) | | |
| Particle Shape | Spherical | Spherical | Spherical | Spherical | Irregular | Spherical | | |
| Particle Size | 20 - 45 μm | 20 - 45 μm | 20 - 45 μm | 20 - 30 μm | 40 - 63 μm | 20 - 45 μm | | |
| Pore Diameter | 300 Å | 300 Å | 300 Å | 50 Å | 60 Å | 100 Å | | |
| Typical Loading | 6 % Carbon | 3 % Carbon | 2 % Carbon | 1.8 mmol/g | 1.3 mmol/g | 5 % Carbon | | |
| Endcapping | Yes | Yes | Yes | Yes | Yes | Yes | | |
| Loading Capacity | 0.1 - 1 % | 0.1 - 1 % | 0.1 - 1 % | 0.1 - 3 % | 0.1 - 2 % | 0.1 - 2 % | | |

^{*} Added at the end of the product number



Most popular phases

Please refer to the following pages to explore the available phases for each SepaFlash™ series! Contact us if you need for more products.

Spherical Bare Silica Gels

The SepaFlash™ Large Size Series offers a range of spherical silica gels.

For detailed specifications, please refer to the table below outlining the available silica options.

| Dawanastawa | Spherical Bare Silica Gels | | | | | |
|----------------------|----------------------------|-----------------------|-----------------------|--|--|--|
| Parameters | 2101, -SP* | 2102, -SP* | 2102, -SP(S)* | | | |
| Category Name | Platinum | Platinum | Sapphire | | | |
| Phase | Bare | Bare | Bare | | | |
| Particle Shape | Spherical | Spherical | Spherical | | | |
| Particle Size | 40 - 75 μm | 20 - 45 μm | 25 μm | | | |
| Pore Diameter | 70 Å | 70 Å | 100 Å | | | |
| Typical Surface Area | $500 \text{ m}^2/\text{g}$ | 500 m ² /g | 500 m ² /g | | | |
| рH | 6.0 - 8.0 | 6.0 - 8.0 | 5.0 - 8.0 | | | |
| Loading Capacity | 0.1 - 10 % | 0.1 - 15 % | 0.1 - 30 % | | | |

^{*} Added at the end of the product number

Most popular phases

| | | Dawanatana | | | | |
|----------------|----------------|----------------|----------------|----------------|-------------|------------------|
| 5222, -SP(AQ)* | 5822, -SP* | 5823, -SP(AQ)* | 5822, -SP(AQ)* | 5422, -SP* | 5CAN, -SP* | Parameters |
| Reversed Phase | CannFlash™ | Category Name |
| C18 Aqueous | C8 | C8 Aqueous | C8 Aqueous | C4 Aqueous | C4-8 | Phase |
| Spherical | Spherical | Spherical | Spherical | Spherical | Spherical | Particle Shape |
| 20 - 45 μm | 20 - 45 μm | 15 μm | 20 - 45 μm | 20 - 45 μm | 20 - 45 μm | Particle Size |
| 100 Å | 100 Å | Pore Diameter |
| 10 % Carbon | 7 % Carbon | 7 % Carbon | 7 % Carbon | 5.8 % Carbon | 10 % Carbon | Typical Loading |
| Yes | Yes | Yes | Yes | Yes | Yes | Endcapping |
| 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 6 % | Loading Capacity |

| | | Bio and Bo | nded Series | | | Davamatava |
|-------------|--------------|-------------|--------------|------------------------|------------------------|------------------|
| 5622, -SP* | 5322, -SP* | 5B22, -SP* | 5C22, -SP* | 5001, -IR* | 5701, -IR* | Parameters |
| Bonded | Bonded | Bonded | Bonded | Bonded | Bonded | Category Name |
| ARG (HILIC) | Cyano (CN) | Phenyl | Phenyl-Hexyl | SAX | SCX | Phase |
| Spherical | Spherical | Spherical | Spherical | Irregular | Irregular | Particle Shape |
| 20 - 45 μm | 20 - 45 μm | 20 - 45 μm | 20 - 45 μm | 40 - 63 μm | 40 - 63 μm | Particle Size |
| 100 Å | 100 Å | 100 Å | 100 Å | 60 Å | 60 Å | Pore Diameter |
| 6 % Carbon | 5.5 % Carbon | 10 % Carbon | 10 % Carbon | 1.3 mmol/g | 10 % Carbon | Typical Loading |
| Yes | Yes | Yes | Yes | Yes | Yes | Endcapping |
| 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.1 - 2 % | 0.200 - 0.260 meq/g | 0.307 - 0.341 meq/g | Loading Capacity |

SepaFlash™ Standard & Large Size Series

Product Overview

SepaFlash™ standard and large size columns are engineered to deliver reliable, high-purity results with exceptional ease and efficiency. Whether purifying milligrams or scaling up to one kilogram, SepaFlash™ offers the ideal solution for fast, straightforward purification. The Luer-Lok™ end fittings ensure compatibility with any flash system, providing a seamless workflow and consistent performance for a smoother purification process.

Key Features

Highly Reproducible

SepaFlash™ standard series and large size columns deliver reliable and reproducible results with a proprietary dry packing technique that ensures a uniform sorbent bed. This minimizes channeling, offering tighter bands, better peak definition, and higher resolution for consistent, high-quality purification.

Versatile

SepaFlash™ standard series and large size columns offer versatility with sizes ranging from 4 g to 10 kg, enabling purification from 10 mg to 1 kg. Packed with high-efficiency silica gels, they provide outstanding performance at a cost-effective price, making them ideal for a wide range of purification needs.



SepaFlash™ Standard Series

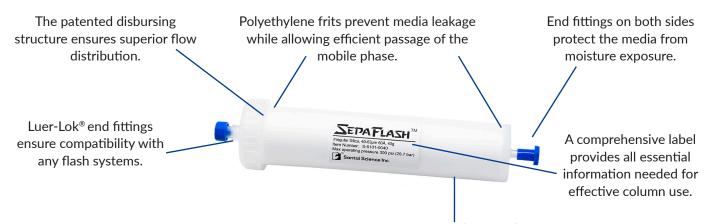




SepaFlash™ Large Size

Fully compatible with all instruments on the market!

Column Design



The innovative one-piece column design withstands pressures up to 300 psi (20.7 bar), guaranteeing 100 % leak-free performance. It is available with a range of irregular and spherical silica gels, aluminas, and other media, all packed with precision using advanced semi-automated dry packing technology for versatile application across various needs.

Column Characteristics

The table below presents the characteristics of the SepaFlash™ Standard & Large Size Series.

| | Typical | | | Recommen | ded Flow Rate | (mL/min)** | | Maximum |
|----------------|--------------------|----------------------------|-------------------------------|-------------------------------|---------------|--|-------------------------------|------------|
| Column Code | Sorbent Weight* | Column ID x Length (mm) | Bare Irregular Silica Gels | Bare Spherical Silica Gels | All Aluminas | Functional 15 μm & 20 - 30/45 μm | ized Silicas 40 - 63/75 μm | Pressure |
| 004 | 4 g | 12.3 x 97.5 | 15 - 40 | 15 - 30 | 10 - 30 | | | |
| 012 | 12 g | 21.2 x 113.3 | 30 - 60 | 25 - 50 | 15 - 45 | | 200 / 20 7 | |
| 025 | 25 g | 21.2 x 163.1 | 30 - 60 | 23 - 30 | 15 - 45 | _ | 300 / 20.7 | |
| 040 | 40 g | 26.7 x 165.9 | 40 - 70 | 30 - 60 | 20 - 50 | Available in the | | |
| 080 | 80 g | 30.9 x 242.5 | 50 - 100 | 40 - 80 | 30 - 70 | (Spin-Welded) | 250 / 17 2 | |
| 120 | 120 g | 37.4 x 254.3 | 60 - 150 | 45 - 90 | 40 - 80 | - | | 250 / 17.2 |
| 220 | 220 g | 59.8 x 209.3 | 80 - 220 | 60 - 120 | 50 - 120 | | | 200 / 13.8 |
| 330 | 330 g | 59.8 x 270.3 | 80 - 220 | 60 - 120 | 50 - 120 | | | 200 / 13.6 |
| 800 | 800 g | 78.2 x 382.9 | 100 - 300 | 200 200 | 100 - 200 | | | |
| 1600 | 1,600 g | 103.8 x 432.4 | | 200 - 300 | | - | | |
| 3000 | 3 kg | 127.5 x 509.5 | 200 - 500 | 300 - 400 | 150 - 300 | 40 - 80 | 50 - 100 | 100 / 6.9 |
| 5000 | 5 kg | 127.5 x 770.0 | - | 350 - 450 | | | | |
| 010K | 10 kg | 172.5 x 850.0 | 300 - 1,000 | 400 - 500 | 200 - 600 | | | |

^{*} Typical weight listed in this table is for the bare silica gel. ** Please refer to tables on page 14 & 15 for recommended flow rate per sorbent code.

Using the SepaFlash™ Column: A Step-by-Step Guide

Cartridge Installation

The SepaFlash™ Standard Series columns are designed with universal connectors, ensuring full compatibility with all flash chromatography systems available on the market.

- Securely attach the cartridge to your flash chromatography system, ensuring a proper fit with the connectors.
- Once the cartridge is installed, refer to the user guide of the system and follow the provided instructions for optimal setup and operation.

Note: Keep end caps on when not in use; remove only for installation.

Sample Loading

The solubility of the compound determines whether to use liquid or dry loading when introducing the sample onto the SepaFlash™ column.

- Liquid loading involves dissolving the sample in the minimum amount of the weakest possible solvent. The dissolved sample is then added to the top of the SepaFlash™ column or introduced via the sample injector using a syringe.
- **Dry loading** is recommended when the sample has limited solubility in weak solvents. In this case, a stronger solvent is used to fully dissolve the sample, which is then pre-adsorbed onto a small quantity of sorbent. After evaporating the solvent using a rotary evaporator, the sample-sorbent mixture is loaded into an empty SepaFlash™ iLOK™ empty solid-load cartridge, which is placed on top of the flash column or directly on the 15 % free space of the SepaFlash™ iLOK™-SL openable column (twist-cap).







Typical Column Characteristics for the Standard & Large Size Series

Bare Silica Gels & Aluminas

The table below presents the characteristics of the SepaFlash™ Standard column series.

| Column Code | Sorbent | Description of the Sorbent | Sorbent Code | Typical Silica Weight | Typical Column Volume (mL) | Flow Rate (mL/min) |
|----------------|----------|----------------------------|-----------------|--------------------------|----------------------------------|-----------------------|
| | Silica – | Irregular 40 - 63 μm, 60 Å | 5101 | 4 g | 6 | 15 - 40 |
| 0004 | JIIICa | Spherical 25 μm, 100 Å | 2102-SP(S) | 4 g | 6 | 15 - 30 |
| - | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 8 g | 6 | 10 - 30 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 12 g | 20 | 30 - 60 |
| 0012 | JIIICa | Spherical 25 μm, 100 Å | 2102-SP(S) | 13 g | 24 | 25 - 50 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 24 g | 20 | 15 - 45 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 25 g | 32 | 30 - 60 |
| 0025 | JIIICa | Spherical 25 μm, 100 Å | 2102-SP(S) | 21 g | 40 | 25 - 50 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 50 g | 30 | 15 - 45 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 40 g | 50 | 40 - 70 |
| 0040 | JIIICa | Spherical 25 μm, 100 Å | 2102-SP(S) | 32 g | 58 | 30 - 60 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 80 g | 48 | 20 - 50 |
| | Silica – | Irregular 40 - 63 μm, 60 Å | 5101 | 80 g | 110 | 50 - 100 |
| 0800 | Silica | Spherical 25 μm, 100 Å | 2102-SP(S) | 70 g | 127 | 40 - 80 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 160 g | 105 | 30 - 70 |
| | Silica — | Irregular 40 - 63 μm, 60 Å | 5101 | 120 g | 155 | 60 - 150 |
| 0120 | | Spherical 25 μm, 100 Å | 2102-SP(S) | 108 g | 186 | 45 - 90 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 240 g | 145 | 40 - 80 |
| | Silica – | Irregular 40 - 63 μm, 60 Å | 5101 | 220 g | 280 | 80 - 220 |
| 0220 | | Spherical 25 μm, 100 Å | 2102-SP(S) | 202 g | 358 | 60 - 120 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 440 g | 260 | 50 - 120 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 330 g | 430 | 80 - 220 |
| 0330 | | Spherical 25 μm, 100 Å | 2102-SP(S) | 282 g | 501 | 60 - 120 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 660 g | 405 | 50 - 120 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 800 g | 1,050 | 100 - 300 |
| 0800 | Jilica | Spherical 25 μm, 100 Å | 2102-SP(S) | 708 g | 1,235 | 200 - 300 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 1.6 kg | 860 | 100 - 200 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 1.6 kg | 2,000 | 200 - 500 |
| 1600 | | Spherical 25 μm, 100 Å | 2102-SP(S) | 1.4 kg | 2,468 | 200 - 300 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 3.2 kg | 1,680 | 150 - 300 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 3.0 kg | 3,850 | 200 - 500 |
| 3000 | Jilica | Spherical 25 μm, 100 Å | 2102-SP(S) | 2.6 kg | 4,626 | 300 - 400 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 6.0 kg | 3,250 | 150 - 300 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 5.0 kg | 6,450 | 200 - 500 |
| 5000 | Silica | Spherical 25 μm, 100 Å | 2102-SP(S) | 4.4 kg | 7,709 | 350 - 450 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 10.0 kg | 3,675 | 150 - 300 |
| | Silica - | Irregular 40 - 63 μm, 60 Å | 5101 | 10.0 kg | 13,000 | 300 - 1,000 |
| 010K | JIIICA | Spherical 25 μm, 100 Å | 2102-SP(S) | 8.8 kg | 15,415 | 400 - 500 |
| | Alumina | Irregular 50 - 75 μm, 55 Å | 8601-A, -B & -C | 20.0 kg | 7,349 | 200 - 600 |

Typical Column Characteristics for the Large Size Series

Bare Silica Gels

The table below outlines the characteristics of the SepaFlash™ Large Size Series, packed with bare silica gels.

| Column Code | Series | Description of Bare Silica Gels | Sorbent Code | Typical Silica Weight | Typical Column Volume (mL) | Flow Rate (mL/min) |
|----------------|----------|------------------------------------|--------------|--------------------------|----------------------------------|-----------------------|
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | 1,207 | |
| 800 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 800 g | 1,034 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | | 1,186 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | 2,414 | |
| 1600 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 1,600 g | 1,600 g 2,069 | |
| | Platinum | um Irregular 25 - 45 μm, 60 Å 5102 | | 2,373 | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | 4,343 | 50 - 100 |
| 3000 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 3 kg | 3,685 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | | 4,224 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | 7,543 | |
| 5000 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 5 kg | 6,466 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | | 7,415 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | 15,086 | |
| 010K | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 10 kg | 10 kg 12,931 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | | 14,077 | |

Functionalized Silica Gels

The table below presents the characteristics of the SepaFlash™ Large Size columns packed with functionalized silica gels.

| Column Code | Description of Functionalized Silica Gels | Typical Silica Weight (g) | Typical Column Volume (mL) | Flow Rate (mL/min) | |
|----------------|---|------------------------------|----------------------------------|-----------------------|--|
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 840 / 850 | 1,086 / 1,099 | 50 - 100 | |
| 800 | Spherical 15 μ m, 100 Å / Spherical 20 - 45 μ m, 300 Å (Bio series) | 840 / 755 | 1,159 / 976 | 40 - 80 | |
| | Spherical 20 - 45 μ m, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 863 | 1,352 / 1,222 | 40 - 60 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 1,980 / 1,660 | 2,458 / 2,576 | 50 - 100 | |
| 1600 | Spherical 15 μ m, 100 \mathring{A} / Spherical 20 - 45 μ m, 300 \mathring{A} (Bio series) | 1,680 / 1,748 | 2,317 / 2,260 | 40 - 80 | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE 1,726 2,731 / 2,444 | | | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 3,800 / 3,188 | 4,717 / 4,122 | 50 - 100 | |
| 3000 | Spherical 15 μ m, 100 \mathring{A} / Spherical 20 - 45 μ m, 300 \mathring{A} (Bio series) | 3,150 / 3,268 | 4,345 / 4,226 | 40 - 80 | |
| | Spherical 20 - 45 μ m, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 3,600 / 3,323 | 5,241 / 4,583 | 40 - 60 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 6,300 / 5,250 | 7,821 / 6,789 | 50 - 100 | |
| 5000 | Spherical 15 μm, 100 Å | 5,248 | 7,239 | 40 - 80 | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 | 6,300 | 8,690 | 40 - 80 | |
| · | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 12,600 / 10,490 | 15,641 / 13,565 | 50 - 100 | |
| 010K | Spherical 15 μm, 100 Å | 10,492 | 14,472 | 40 - 80 | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 | 12,600 | 17,379 | 40 - 60 | |



SepaFlash™ HP & Functionalized Series

Product Overview

These SepaFlash™ HP & Functionalized series (also called **SW series**) provide efficient and scalable chromatography solutions, enabling purification from milligrams to multiple kilograms. These high-performance columns, with spin-welded construction (4 g to 330 g), withstand pressures up to 400 psi, while Luer-Lok® fittings ensure easy stacking and compatibility with any flash system.

Available in irregular (Fusion series) and spherical (Platinum and Sapphire series) silica gel, they offer superior resolution and solvent savings. The Fusion Series is ideal for non-sticky, non-viscous mixtures, while the Sapphire series supports up to 30 % more sample loading. These series offer the ideal balance of performance and versatility for all chromatography needs.



High Performance

The high-purity silica gel, smaller particle sizes, and high back-pressure tolerance make these columns highly efficient, delivering superior performance even in challenging separations.

Solvent Saving

Smaller particle sizes enable faster separations and reduce solvent consumption by up to 50 %, reducing run times by half and lowering costs by 20 - 40 %, while also being environmentally friendly.



SepaFlash™ HP Series



SepaFlash™ Bio Series



SepaFlash™ Bonded Series

Fully compatible with all instruments on the market!

Column Design



The innovative one-piece column design withstands pressures up to 400 psi (27.6 bar), guaranteeing 100 % leak-free performance. It is available with a range of irregular and spherical silica gels, aluminas, and other media, all packed with precision using advanced semi-automated dry packing technology for versatile application across various needs.

Column Characteristics

The table below presents the characteristics of the SepaFlash™ Column - HP & Functionalized series.

| Column | Typical Sorbent | Column ID x | F Bare S | | w Rate (mL/min)** Functional | ized Silicas | Maximum Pressure | |
|--------|--------------------|---------------|-------------|---------------------------------|---------------------------------|--------------------------|---------------------|-------------|
| Code | Weight* | l length (mm) | Length (mm) | 25 μm, 50 μm & 20/25 - 45 μm | 40 -75 μm | 15 μm & 20 - 30/45 μm | 40 - 63/75 μm | (psi / bar) |
| 004 | 4 g | 12.4 x 113.8 | 15 - 30 | 15 - 40 | 5 - 15 | 10 - 20 | | |
| 012 | 12 g | 21.4 x 134.8 | 20 - 50 | 30 - 60 | 10 - 25 | 15 20 | 400 / 27 5 | |
| 025 | 25 g | 21.4 x 184.0 | 20 - 50 | 30 - 60 | 10 - 25 | 15 - 30 | 400 / 27.5 | |
| 040 | 40 g | 26.7 x 184.4 | 30 - 60 | 40 - 70 | 15 - 30 | 20 - 40 | | |
| 080 | 80 g | 31.2 x 257.4 | 40 - 80 | 50 - 100 | 20 - 50 | 30 - 60 | 350 / 24.0 | |
| 120 | 120 g | 38.6 x 261.5 | 45 - 90 | 60 - 150 | 30 - 60 | 40 - 80 | 200 / 20 7 | |
| 220 | 220 g | 61.4 x 223.5 | (0. 100 | 00 000 | | | 300 / 20.7 | |
| 330 | 330 g | 61.4 x 280.2 | 60 - 120 | 80 - 220 | | | 250 / 17.2 | |
| 800 | 800 g | 78.2 x 382.9 | | | | | | |
| 1600 | 1,600 g | 103.8 x 432.4 | | | 40 - 80 | 50 - 100 | | |
| 3000 | 3 kg | 127.5 x 509.5 | 50 - 100 | 50 - 100 | | | 100 / 6.9 | |
| 5000 | 5 kg | 127.5 x 770.0 | | | | | | |
| 010K | 10 kg | 172.5 x 850.0 | | | | | | |

^{*} Typical weight listed in this table is for the bare silica gel. ** Please refer to tables on page 18 & 19 for recommended flow rate per sorbent code.

Using the SepaFlash™ Column: A Step-by-Step Guide

Cartridge Installation

SepaFlash™ HP & Functionalized columns fit all flash systems. Keep end caps on when not in use; remove only for installation. Attach securely and follow your system's user guide for setup.

Sample Loading

The solubility of the compound determines whether to use liquid or dry loading when introducing the sample onto the SepaFlash™ column.

- Liquid loading involves dissolving the sample in the minimum amount of the weakest possible solvent. The dissolved sample is then added to the top of the SepaFlash™ column or introduced via the sample injector using a syringe.
- Dry loading is ideal for samples with low solubility in weak solvents. A strong solvent dissolves the sample, which is pre-adsorbed onto sorbent. After solvent evaporation, the mixture is loaded into a SepaFlash™ iLOK™ solid-load cartridge or the 15 % free space of an iLOK™-SL openable column

Cleaning & Storage Conditions

Proper cleaning and storage are essential for reusing SepaFlash HP & Functionalized Series columns effectively. When storing the columns for an extended period, follow these steps to ensure proper separation efficiency:

- **1. Prevent drying:** after the first use, do not allow the column to dry out. Ensure the air purge on the instrument is turned off.
- **2. Use intermediate solvents when necessary:** if the run solvents are immiscible with the storage solvents, rinse the column with an intermediate solvent.
- **3. Remove organic solvents:** flush the column with 3 column volumes of the following solutions to remove organic modifiers or strong organic solvents:
 - For reversed phase columns: 50 % methanol or acetonitrile in water.
 - For normal phase columns: 80 % acetonitrile in water or 100 % isopropanol.
- **4. Store properly:** fill the column with the recommended solvent (e.g., 80 90 % acetonitrile, methanol, or ethanol in water), and secure both end caps.



Typical Column Characteristics for Bare Silica Gels

The table below presents the characteristics of the SepaFlash™ HP series packed with various bare silica gels.

| | | | | Typical | Typical Column | |
|--------|----------|---------------------------------|---|----------|-----------------|-----------|
| Column | Series | Description of Bare Silica Gels | Sorbent Code | | | Flow Rate |
| Code | 361135 | Description of Dare office Colo | Solution Court | | | (mL/min) |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | Weight | (1112) | 15 - 40 |
| | Fusion | Spherical 20 - 45 μm, 70 Å | | | 5 | |
| 004 | Platinum | Irregular 25 - 45 μm, 60 Å | | — 4 g | - | 15 - 30 |
| | Sapphire | Spherical 25 µm, 100 Å | Sorbent Code Weight Weight Weight Weight MI | 10 00 | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | 30 - 60 |
| | Fusion | Spherical 20 - 45 μm, 70 Å | | | 19 | 00 00 |
| 012 | Platinum | Irregular 25 - 45 μm, 60 Å | | — 12 g | 17 | 20 - 50 |
| | Sapphire | Spherical 25 μm, 100 Å | | | 24 | 25 - 50 |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | 24 | 30 - 60 |
| | | | | | 20 | 30 - 60 |
| 025 | Fusion | Spherical 20 - 45 μm, 70 Å | | — 25 g | 32 | 20 - 50 |
| | Platinum | Irregular 25 - 45 μm, 60 Å | | | | 05 50 |
| | Sapphire | Spherical 25 μm, 100 Å | | | 39 | 25 - 50 |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | 40 - 70 |
| 040 | Fusion | Spherical 20 - 45 μm, 70 Å | | — 40 g | 48 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | | | | 30 - 60 |
| | Sapphire | Spherical 25 μm, 100 Å | | | 52 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | 50 - 100 |
| 080 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | — 80 g | 108 | |
| 000 | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | | | 40 - 80 |
| | Sapphire | Spherical 25 μm, 100 Å | 2102-SP(S) | | 120 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | 2101-SP | | | 60 - 150 |
| 120 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | 120 ~ | 160 | |
| 120 | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | 120 g | | 45 - 90 |
| | Sapphire | Spherical 25 μm, 100 Å | 2102-SP(S) | 180 | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | l0 - 75 μm, 70 Å 2101-SP | 80 - 220 | | |
| 000 | Fusion | Spherical 20 - 45 μm, 70 Å | 2102-SP | | 303 | |
| 220 | Platinum | Irregular 25 - 45 μm, 60 Å | 5102 | — 220 g | | 60 - 120 |
| | Sapphire | Spherical 25 μm, 100 Å | 2102-SP(S) | | 320 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | 80 - 220 |
| | Fusion | Spherical 20 - 45 μm, 70 Å | | | 420 | |
| 330 | Platinum | Irregegular 25 - 45 µm, 60 Å | | — 330 g | | 60 - 120 |
| | Sapphire | Spherical 25 μm, 100 Å | | | 450 | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | |
| | Fusion | Spherical 20 - 45 μm, 70 Å | | | | |
| 800 | Platinum | Irregular 25 - 45 μm, 60 Å | | — 800 g | | |
| | Sapphire | Spherical 25 μm, 100 Å | | | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | |
| | Fusion | Spherical 40 - 73 μm, 70 Å | | | | |
| 1600 | Platinum | Irregular 25 - 45 μm, 60 Å | | 1,600 g | | |
| | | | | | | |
| | Sapphire | Spherical 25 μm, 100 Å | | | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | |
| 3000 | Fusion | Spherical 20 - 45 μm, 70 Å | | — 3 kg | | 50 - 100 |
| | Platinum | Irregular 25 - 45 μm, 60 Å | | | | |
| | Sapphire | Spherical 25 μm, 100 Å | | | | |
| | Platinum | | | | | |
| 5000 | Fusion | Spherical 20 - 45 μm, 70 Å | | 5 kg | | |
| · | Platinum | Irregular 25 - 45 μm, 60 Å | | | | |
| | Sapphire | Spherical 25 μm, 100 Å | | | | |
| | Platinum | Spherical 40 - 75 μm, 70 Å | | | | |
| 010K | Fusion | Spherical 20 - 45 μm, 70 Å | | — 10 kg | 12,931 | |
| | Platinum | Irregular 25 - 45 μm, 60 Å | | | | |
| | Sapphire | Spherical 25 μm, 100 Å | 2102-SP(S) | | 15,071 / 15,690 | |

Typical Column Characteristics for Functionalized Silica Gels

The table below presents the characteristics of the SepaFlash™ spin-welded and large size columns packed with functionalized silica gels.

| 004 — | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE Spherical 20 - 30 μm, 50 Å (NH ₂) Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 5.9 / 4.6 4.2 / 4.5 5.4 5.9 | 3.6 / 6 | 10 - 20 | |
|-------|--|--------------------------------------|-----------------|----------|--|
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE Spherical 20 - 30 μm, 50 Å (NH ₂) Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 5.4 | | | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | | | | |
| 012 | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 5.9 | 7 / 4.3 | 5 - 15 | |
| 012 | | 3.7 | 9 | | |
| 012 | Spherical 15 µm, 100 Å / Spherical 20 - 45 µm, 300 Å (Bio series) | 23 / 18 | 14 / 23 | 15 - 30 | |
| | | 16 | 22 | | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 20 | 23 / 16 | 10 - 25 | |
| _ | Spherical 20 - 30 μm, 50 Å (NH ₂) | 23 | 35 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 38 / 30 | 23 / 39 | 15 - 30 | |
| 005 | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 27 / 26 | 37 / 34 | | |
| 025 | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 33 | 43 / 26 | 10 - 25 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 38 | 57 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 55 / 43 | 33 / 56 | 20 - 40 | |
| - | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 38.5 / 38 | 53 / 49 | | |
| 040 — | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 48 | 68 / 38 | 15 - 30 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 55 | 83 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 122 / 95 | 70 / 123 | 30 - 60 | |
| - | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 86 / 82 | 119 / 106 | | |
| 080 | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 105 | 141 / 83 | 20 - 50 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 122 | 184 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 180 / 142 | 103 / 184 | 40 - 80 | |
| | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 128 / 120 | 176 / 155 | | |
| 120 | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 155 | 213 / 122 | 30 - 60 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 180 | 272 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 340 / 265 | 195 / 343 | 50 - 100 | |
| _ | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 244 / 225 | 337 / 291 | | |
| 220 | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 300 | 414 / 236 | 40 - 80 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 340 | 513 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 475 / 385 | 272 / 458 | 50 - 100 | |
| | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 365 / 320 | 503 / 414 | | |
| 330 — | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 420 | 552 / 331 | 40 - 80 | |
| | Spherical 20 - 30 μm, 50 Å (NH ₂) | 475 | 717 | | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 840 / 850 | 1,086 / 1,099 | 50 - 100 | |
| 800 | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 840 / 755 | 1,159 / 976 | | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 863 | 1,352 / 1,222 | 40 - 80 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 1,980 / 1,660 | 2,458 / 2,576 | 50 - 100 | |
| 1600 | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 1,680 / 1,748 | 2,317 / 2,260 | | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 1,726 | 2,731 / 2,444 | 40 - 80 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 3,800 / 3,188 | 4,717 / 4,122 | 50 - 100 | |
| 3000 | Spherical 15 μm, 100 Å / Spherical 20 - 45 μm, 300 Å (Bio series) | 3,150 / 3,268 | 4,345 / 4,226 | | |
| | Spherical 20 - 45 μm, 100 Å, C18, C8, & C4 / ARG, CN, & PHE | 3,600 / 3,323 | 5,241 / 4,583 | 40 - 80 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 6,300 / 5,250 | 7,821 / 6,789 | 50 - 100 | |
| 5000 | Spherical 15 µm, 100 Å | 5,248 | 7,239 | | |
| | Spherical 20 - 45 µm, 100 Å, C18, C8, & C4 | 6,300 | 8,690 | 40 - 80 | |
| | Irregular 40 - 63 μm, 60 Å / Spherical 40 - 75 μm, 70 Å | 12,600 / 10,490 | 15,641 / 13,565 | 50 - 100 | |
| 010K | Spherical 15 μm, 100 Å | 10,492 | 14,472 | 20 100 | |
| 2101/ | Spherical 20 - 45 µm, 100 Å, C18, C8, & C4 | 12,600 | 17,379 | 40 - 80 | |



SepaFlash™ iLOK™ & iLOK™-SL Series

Product Overview

SepaFlash™ iLOK™ cartridges offer flexible solid and liquid loading options, available pre-packed or empty with screw caps, and withstand up to 200 psi (13.8 bar).

The iLOK™-SL (Twist-Cap) version provides 15 % free space for solid loading or with an inserter for liquid injection.

SepaFlash™ iLOK™ III large-size solid-load cartridges are easy to assemble, handle high sample loads, and support demanding applications. Available in five sizes (800 g to 7 kg) with a 100 psi (6.9 bar) rating, they are compatible with most high-flow systems and adaptable to various tubing diameters.

Key Features

Innovative Design

The innovative patented design of SepaFlash™ iLOK™ cartridges enables easy manual assembly and offers versatility in sample loading methods, supporting both solid loading and direct liquid injection.

Highly Reproducible

Our exclusive, proprietary dry-packing technique ensures high resolution and reproducibility, making it ideal for routine purifications.



SepaFlash™ iLOK™ Empty Solid-Load Cartridge Series



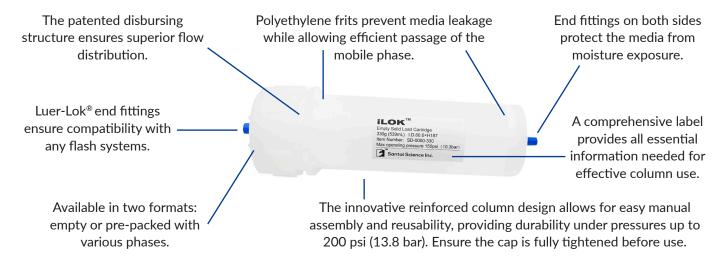
SepaFlash™ iLOK™ & iLOK™-SL Pre-packed Solid-Load Cartridge Series

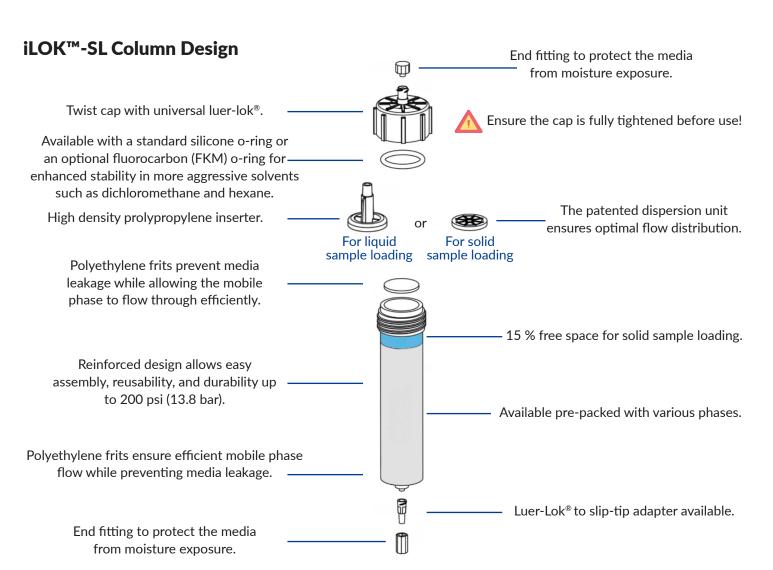


SepaFlash™ iLOK™ III Large-Size Empty Solid-Load Cartridge Series

iLOK™ Column Design

Fully compatible with all instruments on the market!





Column Characteristics

The table below presents the characteristics of the SepaFlash™ Cartridges - iLOK™ & iLOK™-SL series.

| Column Code | Column Size | Column ID x Length (mm) | Sample Size (g) | Volume (mL) | Recommended Flow Rate (mL/min) | Maximum Pressure (psi / bar) |
|----------------|------------------|----------------------------|-------------------------|-----------------------|--------------------------------------|------------------------------------|
| | | Small Siz | ze Formats (available e | empty and pre-packed | l) | |
| 004 | 4 g | 12.8 x 60 | 0.004 - 0.400 | 8 | 15 - 40 | |
| 012 | 12 g | 21.8 x 76 | 0.012 - 1.200 | 27 | 30 - 60 | |
| 025 | 25 g | 21.6 x 126 | 0.025 - 2.500 | 46 | 30 - 60 | 200 / 13.8 |
| 040 | 40 g | 26.8 x 125 | 0.040 - 4.000 | 70 | 40 - 70 | 200 / 13.6 |
| 060 | 60 g | 36.6 x 99 | 0.060 - 6.000 | 104 | 60 - 150 | |
| 080 | 80 g | 31.2 x 193 | 0.080 - 8.000 | 147 | 50 - 100 | |
| 100 | 100 g | 60.4 x 61 | 0.100 - 10.000 | 176 | 80 - 220 | 150 / 10.3 |
| 120 | 120 g | 36.6 x 204 | 0.120 - 12.000 | 215 | 60 - 150 | 200 / 13.8 |
| 220 | 220 g | 60.6 x 131 | 0.220 - 22.000 | 377 | 00 000 | 150 / 10 2 |
| 330 | 330 g | 60.6 x 187 | 0.330 - 33.000 | 539 | 80 - 220 | 150 / 10.3 |
| Large-Size Fo | rmats (Available | e only as empty cartric | dges. Sample size and f | low rate are provided | for reference and may | require adjustments.) |
| 0800B-1 | 800 g | 127 x 140 | 0.8 - 80.0 | 1,395 | 200 400 | |
| 1600B-1 | 1,600 g | 127 x 250 | 1.6 - 160.0 | 2,760 | 200 - 400 | |
| 3000B-1 | 3 kg | 127 x 440 | 3.0 - 300.0 | 5,165 | | 100 / 6.9 |
| 5000B-1 | 5 kg | 127 x 692 | 5.0 - 500.0 | 8,610 | 200 - 500 | |
| 7000B-1 | 7 kg | 127 x 1,000 | 7.0 - 700.0 | 12,510 | | |

SepaFlash™ iLOK™ Empty Cartridges: Three Application Options

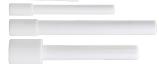
The SepaFlash™ iLOK™ empty cartridges are a versatile product that can be used as a solid-load column, a chromatographic column, or in a combined application for both purposes. These products are supplied as a complete package, including a column tube, screw cap, o-ring, frits (x3), and end caps. Optional frit insertion rod and closing screw cap tools are available. We also offer pre-packed iLOK™ cartridges for those seeking a ready-to-use solution.



Polyethylene frits



Silicone or fluorocarbon (FKM) o-ring



Frit insertion rod tool (various sizes available)



Cap screwing tool (two sizes available)

Using the SepaFlash™ iLOK™ Cartridges: A Step-by-Step Guide

Step 1:

Unscrew and remove the cap from the $iLOK^{TM}$ empty column tube, remove the frit, and place the column tube on a support stand.



Step 2:

Fill the column tube with silica gel mixed with the sample (for solid-load), the adsorbent (for chromatographic column) or with 85 % of silica (for combined application as shown on the picture). Tap gently to settle and avoid overfilling.



Step 3:

Place the frit on the top of the column tube.



Step 4:

Use the insertion tool to press the frit into the column tube, ensuring the frit is as straight as possible.



Complete the next two steps only for the combined application. For solid-load or chromatographic column use, proceed directly to Step 7.

Step 5:

Add the silica gel mixed with the sample to the top of the column (blue section), gently tap to settle and place the second frit on the column tube.



Step 6:

Use the insertion tool to press the frit into the column tube, ensuring the frit is as straight as possible.



Step 7:

Finally, securely fasten the column by fully tightening it with the cap screwing closing tool.



Step 8:

Your SepaFlash™ iLOK™ cartridge is now ready for use. It is recommended to perform a pre-equilibration step with 3 - 5 column volumes before loading your sample.



A

Ensure the cap is fully tightened before use!

SepaFlash™ iLOK™-SL

Each SepaFlash™ iLOK™-SL cartridge features a built-in inserter for convenient liquid injection with a syringe.

For solid loading, remove the inserter and follow steps 5 to 8 as outlined above, replacing the frit with the dispersion unit at step 6.





SepaFlash™ iLOK™ III Large-Size Empty Solid-Load Cartridges

The SepaFlash™ iLOK™ III large-size empty solid-load cartridges are designed for easy manual assembly and accommodate higher sample loads, making them ideal for demanding applications. Available in five sizes (800 g, 1,600 g, 3 kg, 5 kg, and 7 kg), these cartridges are compatible with most high-flow flash chromatography systems. Adapters are also available to accommodate tubing of various outer diameters.

The iLOK^m III large-size empty solid-load cartridge offers a practical and cost-effective solution. The iLOK^m III empty solid-load cartridge features reusable stainless steel components (end caps (x2), retaining rings (x2), and washers & butterfly screw bolts (x8)) ensuring long-term use and cost efficiency. Disposable parts, including the column tube (x1), frits (x2), and sealing rings (x2), can be replaced as needed after contamination, offering convenience and reduced operational costs.



Using the SepaFlash™ iLOK™ III Large-Size Empty Solid-Load Cartridges: A Step-by-Step Guide

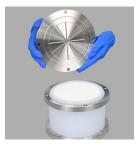
Step 1:

Put the column on a stable surface. Position the frit at the opening of the column tube, then press it into the tube in a single direction until it sits flat. Place the sealing ring in the groove of the column tube.



Step 2:

Place the end cap on the top of the sealing ring.



Step 3:

Insert the washer and the butterfly screw bolt into each of the four (4) holes.



Step 4:

Hand-tighten the four (4) butterfly bolts to firmly secure the end cover.



Step 5:

Flip the column onto the bench and fill the tube with the appropriate chromatographic media or solid sample as needed.



Step 6:

Place the top frit evenly on the packed media bed, ensuring it is aligned horizontally. Then repeat steps 2 through 4 precisely.



Step 7:

Connect the tubing adapters to the cartridge's inlet and outlet, selecting the appropriate size (1/8-inch, 3/16-inch, 1/4-inch, or 3/8-inch OD).









BLL-0506-XXX-2: Adapter kit for SD800 - SD7000 Where **XXX** is:

032 for 1/8-inch • **048** for 3/16-inch

• **064** for 1/4-inch



Ordering Information

This section will guide you in building your SepaFlash™ Column product number. Each number follows the structure:

Standard & Large Size Series

S-[Phase Code]-[Column Code]



Ex: SepaFlash™ Column - Standard Series, Irregular Silica, 40 - 63 μm, 60 Å, 330 g: **S-5101-0330** SepaFlash™ Column - Standard Series, Neutral Alumina, 50 - 75 μm, 55 Å, 40 g: **S-8601-0040-N** SepaFlash™ Column - HP Platinum Series, 40 - 75 μm, 70 Å, 330 g: **SW-2101-0330-SP**

HP & Functionalized Series

SW-[Phase Code]-[Column Code]



Ex: SepaFlash™ Column - HP Platinum Series, Spherical Silica, 40 - 75 μm, 70 Å, 25 g: **SW-2101-0025-SP** SepaFlash™ Column - Reversed Phase Series, Spherical C18, 20 - 45 μm, 100 Å, 4 g: **SW-8222-004-SP**

iLOK™ & iLOK™-SL Series

[SD or SL]-[Phase Code]*-[Column Code]



Ex: SepaFlash™ iLOK™ Empty Solid-Load Cartridges, 120 g (with screw cap, frits, disbursing unit, O-ring and end tips): **SD**-0000-120

SepaFlash™ iLOK™-SL Cartridges, High-Efficiency, Spherical C18, 20 - 45 μm, 100 Å, 4 g: **SL-8222-004-SP**

We take pride in being the only company that allows customers to purchase the exact number of units they need, providing flexibility tailored to your specific requirements.

^{*} Please use phase code " 0000 " for empty cartridges.

Available Accessories

The table below highlights the most popular accessories for the SepaFlash™ iLOK™ and iLOK™-SL (SL) series.

| Item Number | Description | Qty / Box | | | | |
|--|--|----------------|--|--|--|--|
| Top Frit (16 - 20 μm) for iLOK™ Series | | | | | | |
| PF-113-SD-004 | Top frit for 4 g iLOK™ | | | | | |
| PF-113-SD-012 | Top frit for 12 g iLOK™ | 50 | | | | |
| PF-113-SD-025 | Top frit for 25 g iLOK™ | 50 | | | | |
| PF-123-SD-040 | Top frit for 40 g iLOK™ | | | | | |
| Top Frit (20 - 25 μm) for iLOK™ Series | | | | | | |
| PF-124-SD-060 | Top frit for 60 g iLOK™ | | | | | |
| PF-124-SD-080 | Top frit for 80 g iLOK™ | | | | | |
| PF-134-SD-100 | Top frit for 100 g iLOK™ | 20 | | | | |
| PF-124-SD-120 | Top frit for 120 g iLOK™ | | | | | |
| PF-134-SD-220 | Top frit for 220 g iLOK™ | | | | | |
| PF-134-SD-330 | Top frit for 330 g iLOK™ | | | | | |
| PF-034-SD- 0800B-7000B | Top frit for 800 g to 7 kg iLOK™ large-size | 1 | | | | |
| PF-134-S-10KG | Top frit for 10 kg iLOK™ large-size | | | | | |
| Stand | ard Silicone O-Ring for iLOK™ Series* | | | | | |
| OS-SD-004 | O-ring for 4 g iLOK™ | | | | | |
| OS-SD-012 | O-ring for 12 g iLOK™ | 50 | | | | |
| OS-SD-025 | O-ring for 25 g iLOK™ | 50 | | | | |
| OS-SD-040 | O-ring for 40 g iLOK™ | | | | | |
| OS-SD-060 | O-ring for 60 g iLOK™ | | | | | |
| OS-SD-080 | O-ring for 80 g iLOK™ | - - 20 - | | | | |
| OS-SD-100 | O-ring for 100 g iLOK™ | | | | | |
| OS-SD-120 | O-ring for 120 g iLOK™ | | | | | |
| OS-SD-220 | O-ring for 220 g iLOK™ | | | | | |
| OS-SD-330 | O-ring for 330 g iLOK™ | | | | | |
| Frit Insertion Rod Tool | | | | | | |
| TO-PF-IR-001 | Frit insertion rod tool for 4 g iLOK™ | | | | | |
| TO-PF-IR-002 | Frit insertion rod tool for 12 g, 25 g & 40 g iLOK™ | . , | | | | |
| TO-PF-IR-003 | Frit insertion rod tool for 80 g & 120 g iLOK™ | _ 1 | | | | |
| TO-PF-IR-004 | Frit insertion rod tool for 220 g & 330 g iLOK™ | | | | | |
| Cap Screwing Tool | | | | | | |
| TO-SD-0104 | Cap screwing tool for 60 g & 330 g iLOK™ | 1 | | | | |
| TQ-001 | Bench clamp for iLOK™ cartridge screwing cap | | | | | |
| TO-SD-0103 | Cap screwing tool for for 60 g & 330 iLOK™ and bench clamp | | | | | |

*Convenient Installation of O-Ring

Place the appropriate O-ring evenly inside the lid of the iLOK™ column. Then, invert and securely tighten the iLOK™ column. Installation is simple and can be completed easily after unscrewing.

Note: O-rings may deform after prolonged exposure to organic solvents but usually recover within 40 minutes. To extend their service life, unscrew the iLOK $^{\text{\tiny{M}}}$ column, rinse with ethanol, then place in a well ventilated place or blow-dry after each experiment.

| Item Number | Description | Qty / Box | | | | |
|--|--|--------------|--|--|--|--|
| Botto | om Frit (16 - 20 μm) for iLOK™ Series | | | | | |
| PF-213-SD-004 | Bottom frit for 4 g iLOK™ | _ | | | | |
| PF-213-SD-012 | Bottom frit for 12 g iLOK™ | - 50 | | | | |
| PF-213-SD-025 | Bottom frit for 25 g iLOK™ | | | | | |
| PF-223-SD-040 | Bottom frit for 40 g iLOK™ | | | | | |
| Bottom Frit (20 - 25 μm) for iLOK™ Series | | | | | | |
| PF-224-SD-060 | Bottom frit for 60 g iLOK™ | _ | | | | |
| PF-224-SD-080 | Bottom frit for 80 g iLOK™ | _ | | | | |
| PF-234-SD-100 | Bottom frit for 100 g iLOK™ | - 50 | | | | |
| PF-224-SD-120 | Bottom frit for 120 g iLOK™ | - 50 | | | | |
| PF-234-SD-220 | Bottom frit for 220 g iLOK™ | _ | | | | |
| PF-234-SD-330 | Bottom frit for 330 g iLOK™ | | | | | |
| PF-034-SD- 0800B-7000B | Bottom frit for 800 g to 7 kg iLOK™ large-size | 1 | | | | |
| PF-234-S-10KG | Bottom frit for 10 kg iLOK™ large-size | | | | | |
| Fluoroc | arbon (FKM) O-Ring for iLOK™ Series* | | | | | |
| OS-SD-004-F | FKM O-ring for 4 g iLOK™ | _ | | | | |
| OS-SD-012-F | FKM O-ring for 12 g iLOK™ | - 50 | | | | |
| OS-SD-025-F | FKM O-ring for 25 g iLOK™ | - 50 | | | | |
| OS-SD-040-F | FKM O-ring for 40 g iLOK™ | | | | | |
| OS-SD-060-F | FKM O-ring for 60 g iLOK™ | | | | | |
| OS-SD-080-F | FKM O-ring for 80 g iLOK™ | | | | | |
| OS-SD-100-F | FKM O-ring for 100 g iLOK™ | | | | | |
| OS-SD-120-F | FKM O-ring for 120 g iLOK™ | - 20 | | | | |
| OS-SD-220-F | FKM O-ring for 220 g iLOK™ | | | | | |
| OS-SD-330-F | FKM O-ring for 330 g iLOK™ | | | | | |
| Disposa | ble Parts for iLOK™ III Large-Size Series | | | | | |
| ET-SD0800B-1 | Disposable plastic column 800 g | | | | | |
| ET-SD1600B-1 | Disposable plastic column 1,600 g | _ | | | | |
| ET-SD3000B-1 | Disposable plastic column 3 kg | - | | | | |
| ET-SD5000B-1 | Disposable plastic column 5 kg | - | | | | |
| ET-SD7000B-1 | Disposable plastic column 7 kg | - 1 | | | | |
| PF-034-SD- 0800B-7000B | Disposable frit for large-size 800 g to 7 kg iLOK™ III | - | | | | |
| OS-SD-0800B- 7000B-1 | Disposable sealing ring for large-size 800 g to 7 kg iLOK™ III | | | | | |
| Reusable Parts for iLOK™ III Large-Size Series | | | | | | |
| CNTK-SD- 0800B- 7000B-1 | Reusable assembly for large-size iLOK™ III 800 g to 7 kg, including one stainless steel cap, retaining ring, & sealing ring, and four butterfly screw bolts | 1 | | | | |









Contact Us



Simplify your purification, maximize your efficiency!

Santai Science Inc.

How to Order Santai Science Products

At Santai Science, we take pride in providing our products directly to customers from our Montreal office. Our dedicated team, is here to support your needs every step of the way.

To ensure a smooth ordering process, please include the following details with your order:

- Company information: billing and shipping addresses.
- Order details: purchase order number or credit card information, item numbers, product descriptions, quantities, and unit of measure.
- End-user information: full name, email address, and phone number of the end user.



By Phone

You can place an order with our customer service team in French or English, Monday to Friday, between 8:30 AM and 5:30 PM Montreal time (GMT-5).

By Email

Orders can be emailed to the following address:

order@santaisci.com

Phone: +1 514 505 1378

Online Ordering

- 1. Visit our website at www.santaisci.com and explore our "Online Store" by clicking the tab in the top menu bar or the shopping cart icon on the right-hand side.
- 2. Browse our product catalog and select the items you wish to order, specifying the desired quantities.

 Once you're ready, click on the shopping cart icon to proceed to checkout.
- 3. You have several options for checkout:
 - Use express checkout with "Shop Pay" or "Google Pay."
 - Log in to your account, or create one if you'd like.
 - Proceed as a guest.
- 4. Fill out all the required fields in the form, providing your contact information, selecting your preferred shipping method, and entering your payment details based on the chosen method.
- 5. Once all the information has been entered, click the "Pay Now" button at the bottom of the page to complete your payment.



Why Choose Santai

At Santai Science, we are committed to empowering your success with our global reach, innovative technologies, and unwavering support. Here's why partnering with us is the right choice for your chromatography needs:

- Global presence: Santai Science seamlessly delivers world-class chromatography solutions to customers worldwide, ensuring quality and reliability no matter where you are. No matter where you are, our global presence ensures you receive the quality and reliability you deserve.
- Innovative solutions for excellence: elevate your scientific pursuits with our cutting-edge chromatography technologies. Designed with precision and innovation, our solutions empower you to achieve unparalleled results in your research and applications.
- Unwavering customer support: your success is our priority. At Santai Science, we go beyond boundaries to provide dedicated, personalized support. Wherever you are, you can count on us to be your trusted partner every step of the way.

Choose Santai Science - because your success drives our innovation.





SepaBean[™] Family

machine U



machine T

(best-seller)



machine

(standard version)



machine 2

(medium pressure)



machine L

(scale-up)



SepaFlash[™] Columns

Standard Series



Large Size Series



HP, Bio & Bonded **Series**





iLOK[™]Series

(empty & pre-packed)





iLOK[™]- SL Series

Ultra-Pure Bare Silica Gels



Ultra-Pure Bonded Silica Gels



TLC Plates



Other SepaFlash™ Products



Santai Science Inc. 214 Brunswick, Pointe-Claire Quebec, H9R 1A6, Canada



support@santaisci.com



Follow us on







+1 514 505 1378

