



Purezza® Daily Plus
30µ
Irregular Silica Gel

Purezza® Daily
50µ
Irregular Silica Gel

Purezza® Sphera
50µ
Spherical Silica Gel

Purezza® Sphera Star
15µ
Spherical Silica Gel

Purezza® Sphera Plus
25µ
Spherical Silica Gel

Flash Chromatography Cartridges



Your Specialists in Chromatography

Company Profile

SepaChrom is the brainchild of the founders to create a dedicated reality, unique and able to support the **Chromatography users** optimizing their challenges.

Our Core competence is the manufacturing and trading of **High-Quality** products for **Chromatography**.

SepaChrom product portfolio includes a wide range of in-house manufactured **HPLC** Columns in both **Analytical** and **Preparative** scale, **Flash** cartridges & Instruments, and **Process** scale purification.

Our offer of products for Chromatography includes consumables and accessories, for both **HPLC** and **GC** techniques.

Our brands **Robusta**®, **Adamas**®, **Vydamas**®, **TMC**®, **Purezza**®, **Sepa-Bulk**® are only few of the product lines we propose to the **Chromatographers**.

Our Mission

Decades of experience of our team, combined with a range of High Quality selected products and the most efficient technological solutions, allows **SepaChrom** to be a reference to :

- **Pharma,**
- **Biotech,**
- **Chemical,**
- **Food and Beverage,**
- **Cosmetic,**
- **Environmental,**
- **Clinical**
- **Petrolchemical**

industries, at **R&D** department as well **QC** laboratories and **Production**.

Our commitment is to provide the Highest Technical Support that Chromatographers expect from

Your Specialists in Chromatography



Customers in Mind

The success of **SepaChrom** depends by the complete **satisfaction** of our customers, and consequently by their success.

SepaChrom expertise result in a High-Quality support **pre & after** sales to the Chromatographic Users.

A world-wide Distributor Network will assure the users the best in class technical and commercial support to properly approach their Chromatography challenges.

This include a **fast delivery** of your products from our warehouse to everywhere.

Purezza® - High Performance Flash Cartridges




Purezza® is the new **Sepachrom** family of High Performance Flash Chromatography Cartridges. We use ultra-pure silica gel as well as pharmaceutical grade polypropylene cartridges to assure high performance and trouble free purification.


Our cartridges offer several advantages over other products on the market : Low Fines, Neutral pH, 100% leak-free, No Tailing or Channelling, Lot-to-Lot Reproducibility and full compatibility with most instruments on the market :

- **Teledyne Isco** (CombiFlash®, Rf, Companion®, Retrieve®, OptiX®)
- **Biotage** (Isolera™, SP, Flash, FlashMaster II, Selekt)
- **Armen** (Spot Flash System)
- **Interchim** (puriFlash® line) -
- **Buchi - previously Grace** (Reveleris® X1 & X2, Reveleris® Prep), Pur, Sepacore®.
- **Gilson** (PLC)


Purezza® Bonded Phase High Performance Flash Cartridges are also available in: **C18, C8, C4, CN, HILIC, NH₂, Diol, SCX, SAX, Alumina and Chiral.**

Purezza® High Performance Flash Cartridges are available in 5 lines : **Purezza® Daily, Purezza® Daily^{Plus}, Purezza® Sphera, Purezza® Sphera^{Plus}, Purezza® Sphera^{Star}** and 2 hardware options: **Standard** and **Open-Load** to support all of the chemist's challenges in their laboratory's purifications.







Purezza® Daily
50µ
Irregular Silica Gel




Purezza® Sphera
50µ
Spherical Silica Gel



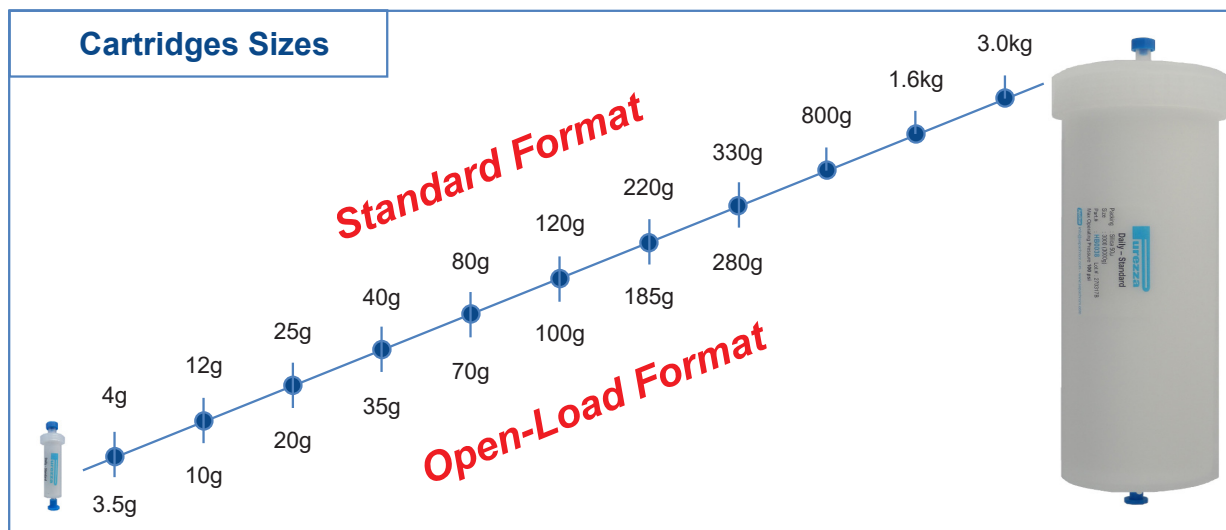
Purezza® Daily^{Plus}
30µ
Irregular Silica Gel



Purezza® Sphera^{Star}
15µ
Spherical Silica Gel



Purezza® Sphera^{Plus}
25µ
Spherical Silica Gel



Cartridge Hardware Formats

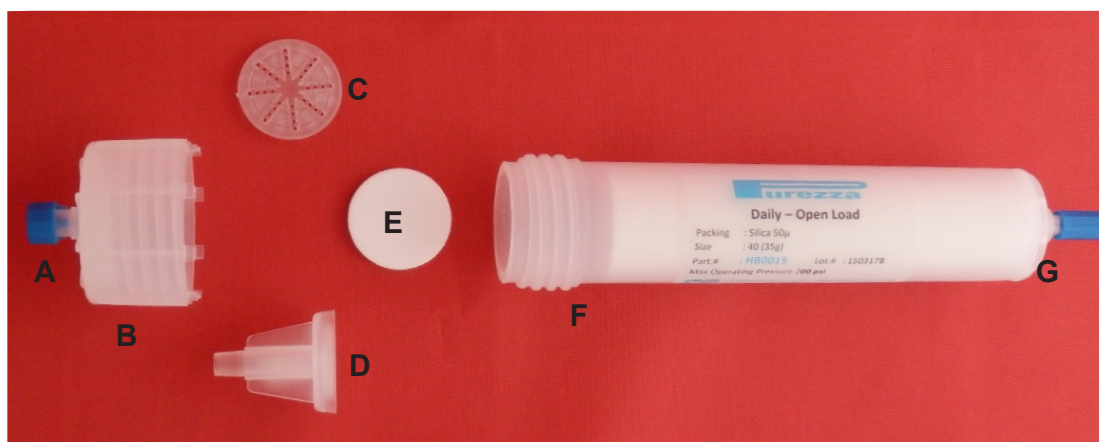
Standard

The **Purezza® Standard Format Cartridges** use a Pharmaceutical grade Polypropylene material to ensure virtually zero cross contamination and reliable and reproducible purification. The Luer-Lock end fittings make the Standard format compatible with most Flash Chromatography Instruments on the market. The Distribution Disk on top of the column ensures the best flow distribution path onto the column and the design can withstand pressure up to 300 psi (depending on the size) with no leak.



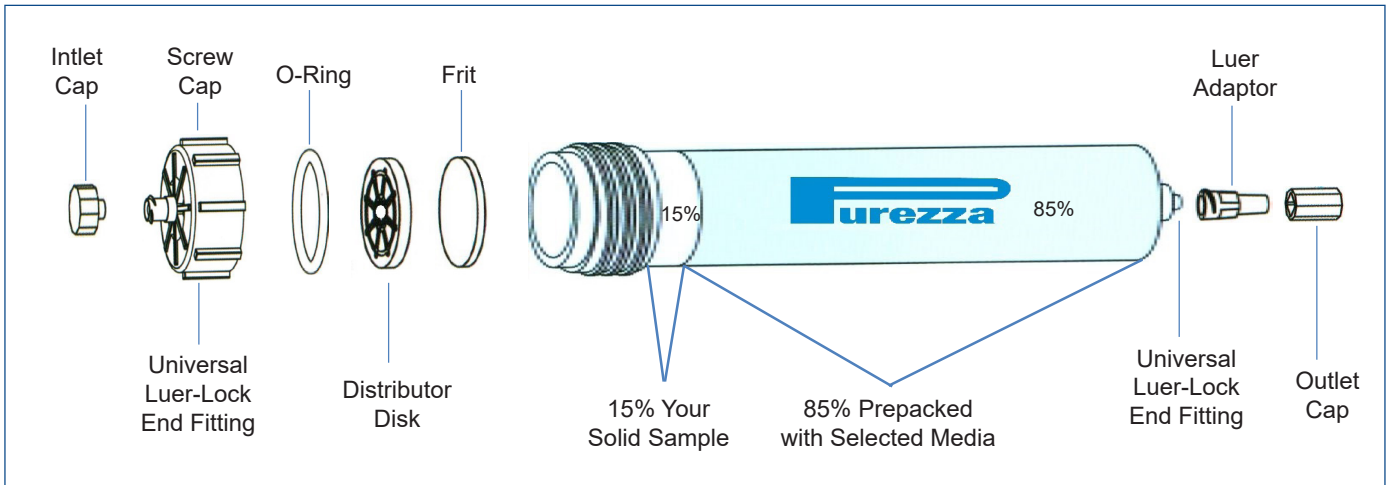
Open-Load

The **Purezza® Open-Load Format Cartridges** use the same Pharmaceutical grade Polypropylene material as the Standard Format. The Luer-Lock end fittings make the Open-Load format **compatible with most Flash Chromatography** Instruments on the market, in particular they are **ideal for use with Biotage systems**. The Open-Load design allow the chemist to **choose between liquid injection or dry loading** (sample/silica mix) directly on top of the cartridge, without any other accessory (i.e. samplet). Pressure limit is up to 200 psi according to the cartridge size.



- A - UNIVERSAL LUER-LOCK END FITTING** to connect the cartridge to most Flash Chromatography Instruments on the market. A Blue end caps keep the media dry when not in use.
- B - SCREW CAP.** Contains an **O-RING** (Fluorocarbon or Silicone) to ensure maximum sealing.
- C - DISTRIBUTOR DISK** to have optimal flow distribution when **SOLID LOADING** Injection is used.
- D - Insert** made in PPHD (Polypropylene High Density) to obtain optimal flow distribution when **LIQUID INJECTION** is used.
- E - Polyethylene FRIT** to keep media in place.
- F - Cartridge body** is **85% PACKED WITH MEDIA** and has **15% empty space** to be filled with your **SOLID SAMPLE**.
- G - UNIVERSAL LUER-LOCK END FITTING** to connect the cartridge to most Flash Chromatography Instruments on the market. A Blue end caps keep the media dry when not in use.

How Does the Open-Load Cartridges Hardware Work?



Open-Load Cartridge Concept for Dry Sample Loading



1 - Remove the screw top cap



2 - Remove the PPHD Insert



3 - Load your sample in the free space



4 - Put the extra frit on top of your sample



5 - Put the distributor disc on top of the frit



6 - And close back the cartridge tightly.

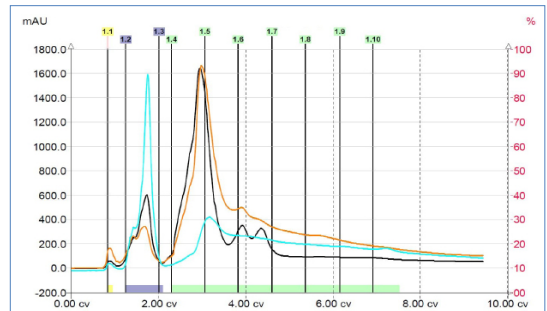
7 - The cartridge is now ready for your purification.



Small Molecules Purification Operative Parameters :

Cartridge : Purezza®-Sphera^{plus}
Size : 25g
Solvent : A - Hexane
 B - Ethylacetate
Flow Rate : 25mL/min
UV1 : 254 nm
UV2 : 285 nm
UV3 : 324 nm

Gradient		
CV	Solvent AB	
1	0.0	90:20
2	1.0	70:30
3	11.0	0:100



Purezza® - High Performance Flash Cartridges

Purezza® - Daily

The **Purezza®-Daily Cartridge** hardware is made from Pharmaceutical grade Polypropylene material to ensure virtually zero cross contamination and it is ideal for reliable and reproducible purification.

They are available in both **Standard** and **Open-Load** versions and compatible with most of the Flash Chromatography instruments available on the market. On Biotage systems we recommend the Open-Load version as the outlet Luer-Lok fitting eliminates the fluid connection leaking or coming off when there are instrument pressure pulses. The high pressure limits ensure they can be used with the newest Flash Chromatography systems on the market.

The best Quality/Price ratio make these cartridges the best choice for Daily purifications.

Purezza®-Daily - Specifications	
Packing	High Quality Silica Gel
Particle Size	50µ IRREGULAR
Porosity	60Å
Surface Area	500 m ² /g
pH	6,5-7,5
USP Designation	L3

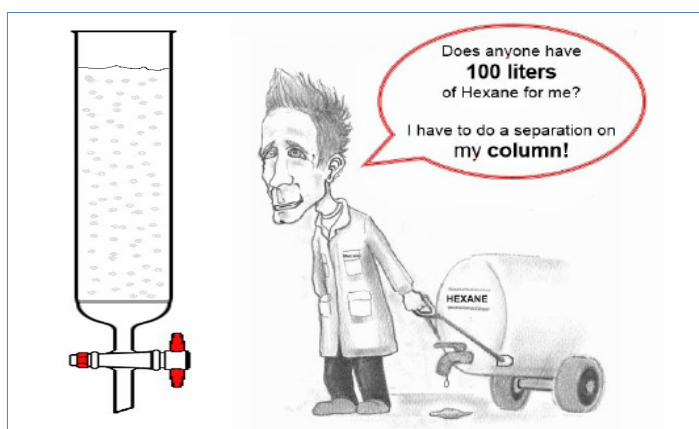


Purezza®-Daily Flash Cartridges - Silica - Standard Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-10%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	Silica	50µ	4g	4-400mg	15 (40)	300	20	HB0028
S-12	Standard	Silica	50µ	12g	12-1200mg	25 (60)	300	18	HB0029
S-25	Standard	Silica	50µ	25g	25-2500mg	25 (60)	300	12	HB0030
S-40	Standard	Silica	50µ	40g	40-4000mg	30 (70)	300	12	HB0031
S-80	Standard	Silica	50µ	80g	80-8000mg	50 (100)	200	10	HB0032
S-120	Standard	Silica	50µ	120g	0.120-12g	60 (150)	200	10	HB0033
S-220	Standard	Silica	50µ	220g	0.220-22g	100 (220)	150	6	HB0034
S-330	Standard	Silica	50µ	330g	0.330-33g	120 (220)	150	5	HB0035
S-800	Standard	Silica	50µ	800g	0.800-80g	150 (300)	100	1	HB0036
S-1600	Standard	Silica	50µ	1600g	1.6-160g	200 (500)	100	1	HB0037
S-3000	Standard	Silica	50µ	3000g	3-300g	250 (500)	100	1	HB0038

Automated Flash Chromatography vs. Glass Column Chromatography

Automated Flash Chromatography Systems using Pre-Packed Flash Columns help you to:

- **Save up to 50% Solvent**
- **Save up to 90% of Time**
- **Use Gradients** (For Improved Resolution)
- **Achieve Higher Recovery and Purity**
- **Have Higher Loadability**
- **Have Higher Column to Column Reproducibility**
- **Ensure Improved Safety** (No Glass or Silica Handling)



Purezza®-Daily Flash Cartridges - Silica - Open-Load Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-10%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Open-Load	Silica	50µ	3.5g	3.5-350mg	15 (40)	200	20	HB0012
S-12	Open-Load	Silica	50µ	10g	10-1000mg	25 (60)	200	18	HB0013
S-25	Open-Load	Silica	50µ	20g	20-2000mg	25 (60)	200	12	HB0014
S-40	Open-Load	Silica	50µ	35g	35-3500mg	30 (70)	200	12	HB0015
S-80	Open-Load	Silica	50µ	70g	70-7000mg	50 (100)	200	10	HB0016
S-120	Open-Load	Silica	50µ	100g	0.100-10g	60 (150)	200	10	HB0017
S-220	Open-Load	Silica	50µ	185g	0.185-18.5g	100 (220)	150	6	HB0018
S-330	Open-Load	Silica	50µ	280g	0.280-28g	120 (220)	150	5	HB0019

Purezza® - Daily^{Plus}

The **Purezza®-Daily^{Plus} Cartridge** uses 30µm Irregular Silica Gel to ensure a higher efficiency for difficult purification challenges. Comparing 30µm to 50µm Irregular Silica loading capacity and sample recovery will improve drastically (up to 50% under certain conditions). These cartridges are the best choice for daily purifications where high efficiency is needed. The **Purezza®-Daily^{Plus} Cartridge** hardware is made with a Pharmaceutical grade Polypropylene material to ensure virtually zero cross contamination and for reliable and reproducible purification. They are compatible with most of the Flash Chromatography instruments available on the market.

Purezza®-Daily ^{Plus} - Specifications	
Packing	High Quality Silica Gel
Particle Size	30µ IRREGULAR
Porosity	60Å
Surface Area	500 m ² /g
pH	6,5-7,5
USP Designation	L3



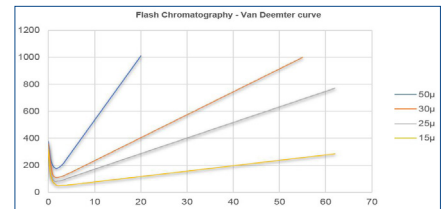
Purezza®-Daily ^{Plus} Flash Cartridges - Silica - Standard Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-15%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	Silica	30µ	4g	4-600mg	15 (30)	300	20	HB0039
S-12	Standard	Silica	30µ	12g	12-1800mg	25 (50)	300	18	HB0040
S-25	Standard	Silica	30µ	25g	25-3800mg	25 (50)	300	12	HB0041
S-40	Standard	Silica	30µ	40g	40-6000mg	30 (60)	300	12	HB0042
S-80	Standard	Silica	30µ	80g	80-12000mg	50 (80)	200	10	HB0043
S-120	Standard	Silica	30µ	120g	0.120-18g	60 (100)	200	10	HB0044
S-220	Standard	Silica	30µ	220g	0.220-33g	80 (160)	150	6	HB0045
S-330	Standard	Silica	30µ	330g	0.330-50g	100 (160)	150	5	HB0046



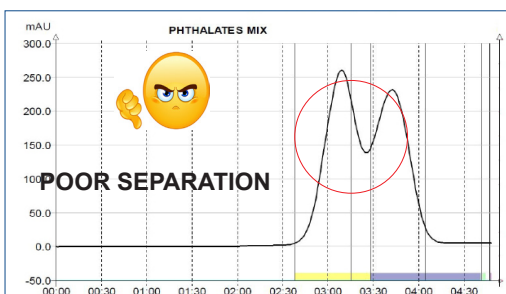
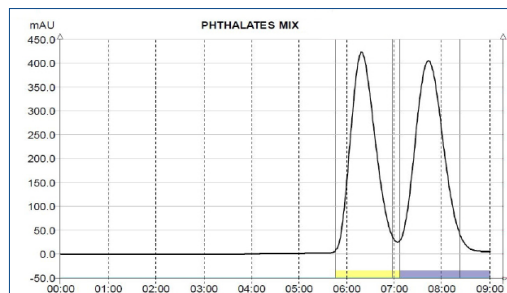
Particle Size & Flow Rate

Did you know that High Performance Columns packed with smaller particle size media (15µm - 25µm - 30µm) can work at higher flow rate without loss of efficiency?

Here are 3 examples of Van Deemter curves using High Flow Rates with Smaller Particle Size.

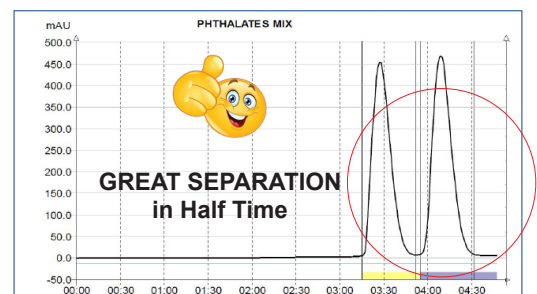


Flow/Rate 20mL/min
Purezza®-Daily
50µ 12g



40mL/min
Purezza®-Daily
50µ 12g

40mL/min
Purezza®-Sphera
15µ 12g



Purezza® - Sphera

The **Purezza®-Sphera Cartridge** uses **High Capacity** and **Purity** Silica Gel. Thanks to the high Surface Area they provide a higher sample interaction and higher sample loading, up to 15% of their weight.

The **Purezza®-Sphera Cartridge** hardware is made with a Pharmaceutical grade Polypropylene material to ensure virtually zero cross contamination and it is ideal for reliable and reproducible purification.

They are available in both **Standard** and **Open-Load** versions and compatible with most of the Flash Chromatography instruments available on the market. On Biotage systems we recommend the Open-Load version as the outlet Luer-Lok fitting eliminates the fluid connection leaking or coming off when there are instrument pressure pulses. The high pressure limits ensure they can be used with the newest Flash Chromatography systems on the market.

The **Purezza®-Sphera Cartridge** are the best choice for complex matrix purifications in your laboratory.

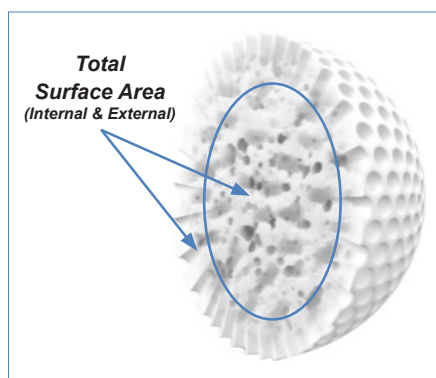
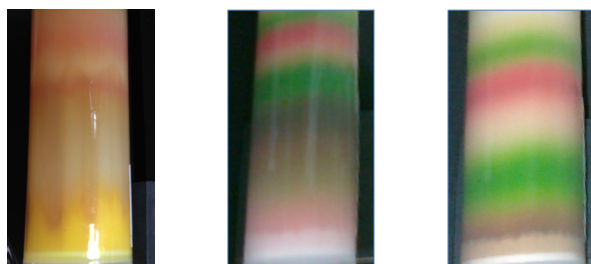
Purezza®-Sphera - Specifications	
Packing	High Capacity Silica Gel
Particle Size	50µ SPHERICAL
Porosity	60Å
Surface Area	700 m ² /g
pH	6,5-7,0
USP Designation	L3



Purezza®-Sphera Flash Cartridges - Silica - Standard Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-15%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	Silica	50µ	4g	4-600mg	15 (40)	300	20	HB0047
S-12	Standard	Silica	50µ	12g	12-1800mg	25 (60)	300	18	HB0048
S-25	Standard	Silica	50µ	25g	25-3800mg	25 (60)	300	12	HB0049
S-40	Standard	Silica	50µ	40g	40-6000mg	30 (70)	300	12	HB0050
S-80	Standard	Silica	50µ	80g	80-12000mg	50 (100)	200	10	HB0051
S-120	Standard	Silica	50µ	120g	0.120-18g	60 (150)	200	10	HB0052
S-220	Standard	Silica	50µ	220g	0.220-33g	100 (220)	150	6	HB0053
S-330	Standard	Silica	50µ	330g	0.330-50g	120 (220)	150	5	HB0054
S-800	Standard	Silica	50µ	800g	0.800-120g	150 (300)	100	1	HB0055
S-1600	Standard	Silica	50µ	1600g	1.6-240g	200 (300)	100	1	HB0056
S-3000	Standard	Silica	50µ	3000g	3-450g	250 (500)	100	1	HB0057

Surface Area & Interaction

Higher Surface Area of Spherical Media provides higher Interaction between Silica and Targets compounds and consequently gives much better separation with complex matrices.



Purezza®-Sphera Flash Cartridges - Silica - Open-Load Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-15%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Open-Load	Silica	50µ	3.5g	3.5-525mg	15 (40)	200	20	HB0071
S-12	Open-Load	Silica	50µ	10g	10-1500mg	25 (60)	200	18	HB0072
S-25	Open-Load	Silica	50µ	20g	20-3000mg	25 (60)	200	12	HB0073
S-40	Open-Load	Silica	50µ	35g	35-5250mg	30 (70)	200	12	HB0074
S-80	Open-Load	Silica	50µ	70g	70-10500mg	50 (100)	200	10	HB0075
S-120	Open-Load	Silica	50µ	100g	0.100-15g	60 (150)	200	10	HB0076
S-220	Open-Load	Silica	50µ	185g	0.185-27.5g	120 (220)	150	6	HB0077
S-330	Open-Load	Silica	50µ	280g	0.280-42g	120 (220)	150	5	HB0078

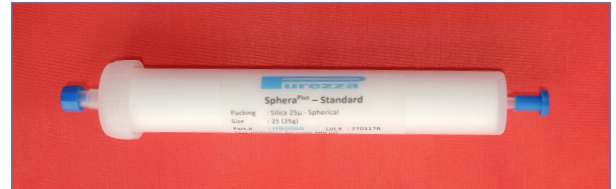
Purezza® - SpheraPlus

The **Purezza®-SpheraPlus Cartridge** uses **High Capacity** and **Purity** Silica Gel with smaller particle size media (25µm). The high Surface Area combined with the small particle size provides better separation as well as an increased sample loading capacity (up to 20% of their weight).

They are available in both **Standard** and **Open-Load** versions and compatible with most of the Flash Chromatography instruments available on the market. On Biotage systems we recommend the Open-Load version as the outlet Luer-Lok fitting eliminates the fluid connection leaking or coming off when there are instrument pressure pulses. The high pressure limits ensure they can be used with the newest Flash Chromatography systems on the market.

The **Purezza®-SpheraPlus Cartridge** are best choice for very complex matrix purifications in your laboratory.

Purezza®-SpheraPlus - Specifications	
Packing	High Capacity Silica Gel
Particle Size	25µ SPHERICAL
Porosity	50Å
Surface Area	700 m ² /g
pH	6,5-7,0
USP Designation	L3



Purezza®-SpheraPlus Flash Cartridges - Silica - Standard Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-20%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	Silica	25µ	4g	4-800mg	15 (30)	300	20	HB0058
S-12	Standard	Silica	25µ	12g	12-2400mg	25 (50)	300	18	HB0059
S-25	Standard	Silica	25µ	25g	25-5000mg	25 (50)	300	12	HB0060
S-40	Standard	Silica	25µ	40g	40-8000mg	30 (60)	300	12	HB0061
S-80	Standard	Silica	25µ	80g	80-16000mg	50 (80)	200	10	HB0062
S-120	Standard	Silica	25µ	120g	0.120-24g	60 (100)	200	10	HB0063
S-220	Standard	Silica	25µ	220g	0.220-44g	80 (160)	150	6	HB0064
S-330	Standard	Silica	25µ	330g	0.330-66g	120 (160)	150	5	HB0065
S-800	Standard	Silica	25µ	800g	0.800-160g	105 (210)	100	1	HB0066
S-1600	Standard	Silica	25µ	1600g	1.6-320g	140 (350)	100	1	HB0067
S-3000	Standard	Silica	25µ	3000g	3-600g	175 (350)	100	1	HB0068

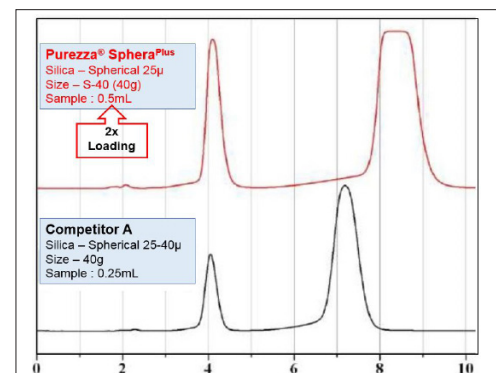
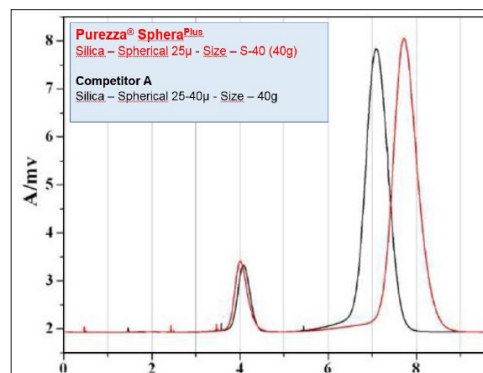
Comparison between Purezza®-SpheraPlus and Competitor A

Smaller Particle Size and High Surface Area provide

- Better separations
- Higher loadability
- Improved Productivity

for your difficult samples.

Sample : Acetophenone & p-Methoxyacetophenone
Mobile Phase : Hexane/Ethylacetate 80/20
Sample : 0.5mL
Detector : UV 254nm



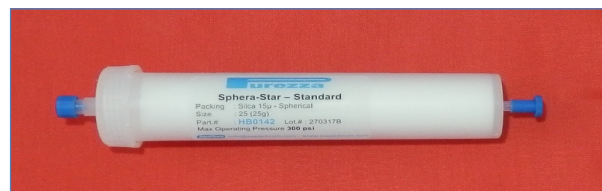
Purezza-SpheraPlus Flash Cartridges - Silica - Open-Load Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-20%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Open-Load	Silica	25µ	3.5g	3.5-750mg	15 (30)	200	20	HB0079
S-12	Open-Load	Silica	25µ	10g	10-2000mg	25 (50)	200	18	HB0080
S-25	Open-Load	Silica	25µ	20g	20-4000mg	25 (50)	200	12	HB0081
S-40	Open-Load	Silica	25µ	35g	35-7500mg	30 (60)	200	12	HB0082
S-80	Open-Load	Silica	25µ	70g	70-14000mg	50 (80)	200	10	HB0083
S-120	Open-Load	Silica	25µ	100g	0.100-20g	60 (100)	200	10	HB0084
S-220	Open-Load	Silica	25µ	185g	0.185-37g	80 (160)	150	6	HB0085
S-330	Open-Load	Silica	25µ	280g	0.280-56g	100 (160)	150	5	HB0086

Purezza® - Sphera^{Star}

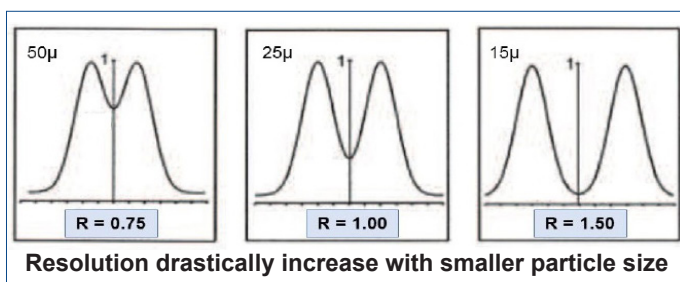
The **Purezza®-Sphera^{Star} Cartridge** uses **High Efficiency** and **Purity** Spherical Silica Gel with very small particle size (15µm). The high Surface Area combined with the small particle size provide a better separation as well as increased sample loading capacity (up to 30% of their weight). They are compatible with the newest Flash Chromatography instruments available on the market.

The **Purezza®-Sphera^{Star} Cartridges** are the best choice for **extremely** complex matrix purifications in your laboratory.

Purezza®-Sphera ^{Star} - Specifications	
Packing	High Efficiency Silica Gel
Particle Size	15µ SPHERICAL
Porosity	50Å
Surface Area	700 m ² /g
pH	6,5-7,5
USP Designation	L3

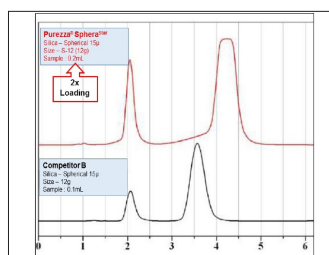
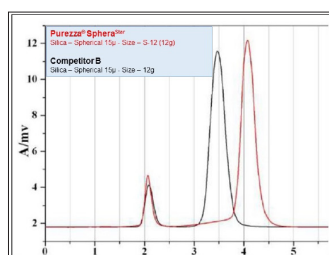


Purezza®-Sphera ^{Star} Flash Cartridges - Silica - Standard Type									
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-30%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	Silica	15µ	4g	4-1200mg	15 (30)	300	20	HB0144
S-12	Standard	Silica	15µ	12g	12-3600mg	25 (50)	300	18	HB0145
S-25	Standard	Silica	15µ	25g	25-7500mg	25 (50)	300	12	HB0146
S-40	Standard	Silica	15µ	40g	40-12000mg	30 (60)	300	12	HB0147
S-80	Standard	Silica	15µ	80g	80-24000mg	50 (80)	200	10	HB0148
S-120	Standard	Silica	15µ	120g	0.120-36g	60 (100)	200	10	HB0149
S-220	Standard	Silica	15µ	220g	0.220-66g	80 (160)	150	6	HB0150
S-330	Standard	Silica	15µ	330g	0.330-99g	120 (160)	150	5	HB0151



Comparison between Purezza®-Sphera^{Star} and Competitor B

Smaller Particle Size
+
High Surface Area
=

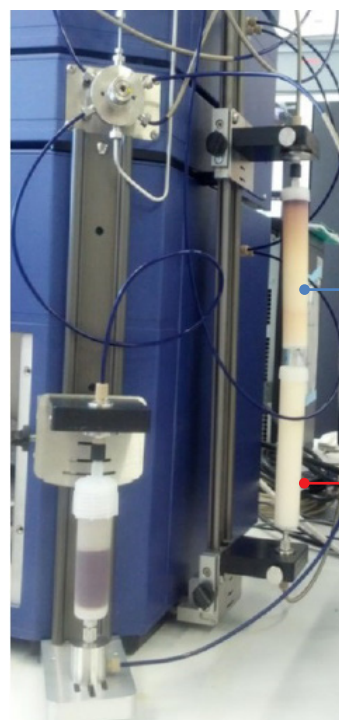


Sample : Acetophenone & p-Methoxyacetophenone
 Mobile Phase : Hexane/Ethylacetate 80/20
 Sample : 0.2mL
 Detector : UV 254nm

- Better separations
- Higher loadability
- Improved Productivity

How can I improve ?

- **Loading Capacity**
- **Resolution**
- **Efficiency**



If your Flash System can reach High-Pressure and High Flow-Rate then the **Stacking Column Option** is the Answer.

The TOP Cartridge packed with High-Capacity silica **Purezza® Sphera 50µm** increases sample loading and starts your initial purification

The BOTTOM Cartridge packed with High Efficiency silica **Purezza® Sphera^{Star} 15µm** improves resolution and completes your separation.

PuriFlash® systems reach up to **250 bar** pressure rate and **300mL** flow rate!

Purezza® - High Performance Flash Cartridges

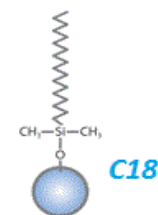


Purezza® - Reversed Phase Cartridges

The **Purezza®** product line includes a wide range of Reversed Phase cartridges packed with **High Quality** and **High Efficiency** C18 bonded Silica Gel media.

Purezza® Cartridges are available in both Irregular and Spherical C18 bonded media with Particle sizes of 50µm, 25µm and 15µm.

They are compatible with the newest Flash Chromatography instruments available on the market.



Purezza® - Daily



Purezza®-Daily - C18 Specifications	
Packing	High Quality C18 bonded media
Particle Size	50µ IRREGULAR
Porosity	60Å
Surface Area	500 m ² /g
Carbon Load	17%
End Capping	Yes
USP Designation	L1

Purezza®-Daily Flash Cartridges - C18 - Standard Type

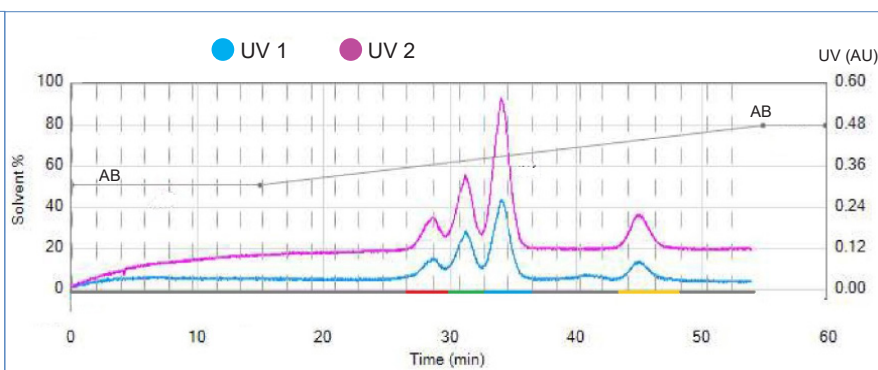
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-2%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	C18	50µ	5.9g	5.9-118mg	10 (20)	300	1	HB0087
S-12	Standard	C18	50µ	23g	23-460mg	15 (30)	300	1	HB0088
S-25	Standard	C18	50µ	38g	38-760mg	15 (30)	300	1	HB0089
S-40	Standard	C18	50µ	55g	55-1100mg	20 (40)	300	1	HB0090
S-80	Standard	C18	50µ	122g	122-2500mg	30 (60)	200	1	HB0091
S-120	Standard	C18	50µ	180g	180-3600g	40 (80)	200	1	HB0092
S-220	Standard	C18	50µ	305g	305-6800mg	50 (100)	150	1	HB0093
S-330	Standard	C18	50µ	475g	475-9500mg	50 (100)	150	1	HB0094
S-800	Standard	C18	50µ	1220g	1.22-24.4g	70 (140)	100	1	HB0095
S-1600	Standard	C18	50µ	2420g	2.42-48.4g	90 (180)	100	1	HB0096
S-3000	Standard	C18	50µ	4330g	4.33-86.6g	110 (220)	100	1	HB0097

Purification of Porphyrins

Operative Parameters :

Cartridge : Purezza®-Daily C18 - 40g
 Solvent : A - Water
 B - Acetonitrile
 Flow Rate : 40mL/min
 Equilibration : 2 min
 Run Time : 60 min
 Injection : Liquid
 UV1 : 380 nm
 UV2 : 740 nm

Gradient Table		
	Min	% Solvent A/B
1	0.0	50-50
2	15.0	50-50
3	40.0	80-20
4	5.0	80-20



Purezza®-Daily Flash Cartridges - C18 - Open-Load Type

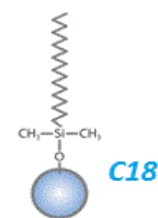
Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (Liquid) (0.1-2%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Open-Load	C18	50µ	5g	5-100mg	10 (20)	300	1	HB0113
S-12	Open-Load	C18	50µ	20g	20-400mg	15 (30)	300	1	HB0114
S-25	Open-Load	C18	50µ	32g	32-640mg	15 (30)	300	1	HB0115
S-40	Open-Load	C18	50µ	47g	47-940mg	20 (40)	300	1	HB0116
S-80	Open-Load	C18	50µ	103g	103-2060mg	30 (60)	200	1	HB0117
S-120	Open-Load	C18	50µ	153g	0.153-3.06g	40 (80)	200	1	HB0118
S-220	Open-Load	C18	50µ	290g	0.290-5.8g	50 (100)	150	1	HB0119
S-330	Open-Load	C18	50µ	405g	0.405-8.1g	50 (100)	150	1	HB0120

Purezza® - Reversed Phase Cartridges

Purezza®-Sphera^{Plus} - C18 Specifications

Packing	High Efficiency C18 Silica Gel
Particle Size	25µ SPHERICAL
Porosity	100Å
Surface Area	320 m ² /g
Carbon Load	17%
End Capping	Yes
USP Designation	L1

Purezza® - Sphera^{Plus}



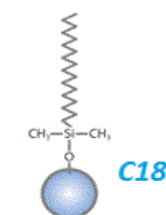
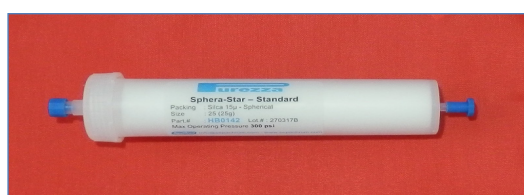
Purezza®-Sphera^{Plus} Flash Cartridges - C18 - Standard Type

Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-5%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	C18	25µ	5.4g	5.4-270mg	10 (20)	300	1	HB0098
S-12	Standard	C18	25µ	20g	20-1000mg	15 (30)	300	1	HB0099
S-25	Standard	C18	25µ	33g	33-1650mg	15 (30)	300	1	HB0100
S-40	Standard	C18	25µ	48g	48-2400mg	20 (40)	300	1	HB0101
S-80	Standard	C18	25µ	105g	105-5250mg	30 (60)	200	1	HB0102
S-120	Standard	C18	25µ	155g	155-7750mg	40 (80)	200	1	HB0103
S-220	Standard	C18	25µ	270g	0.27-13.5g	50 (100)	150	1	HB0104
S-330	Standard	C18	25µ	420g	0.42-21.0g	50 (100)	150	1	HB0105
S-800	Standard	C18	25µ	1080g	1.08-54.0g	70 (140)	100	1	HB0106
S-1600	Standard	C18	25µ	2140g	2.14-107.0g	90 (180)	100	1	HB0107
S-3000	Standard	C18	25µ	3830g	3.83-191.5g	110 (220)	100	1	HB0108

Purezza®-Sphera^{Star} - C18 Specifications

Packing	High Efficiency C18 Silica Gel
Particle Size	15µ SPHERICAL
Porosity	100Å
Surface Area	320 m ² /g
Carbon Load	17%
End Capping	Yes
USP Designation	L1

Purezza® - Sphera^{Star}



Purezza®-Sphera^{Star} Flash Cartridges - C18 - Standard Type

Size	Type	Material	Particle Size	Packing Qty	Loading Capacity (0.1-5%)	Suggested Flow Rate (Max mL/min)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	Standard	C18	15µ	5.4g	5.4-432mg	10 (20)	300	1	HB0110
S-12	Standard	C18	15µ	20g	20-1600mg	15 (30)	300	1	HB0111
S-25	Standard	C18	15µ	33g	33-2640mg	15 (30)	300	1	HB0112
S-40	Standard	C18	15µ	48g	48-3840mg	20 (40)	300	1	HB0131
S-80	Standard	C18	15µ	105g	105-8400mg	30 (60)	200	1	HB0132
S-120	Standard	C18	15µ	155g	155-12400mg	40 (80)	200	1	HB0133
S-220	Standard	C18	15µ	260g	0.26-20.8g	50 (100)	150	1	HB0134
S-330	Standard	C18	15µ	410g	0.41-32.8g	50 (100)	150	1	HB0135
S-800	Standard	C18	15µ	1050g	1.05-84.0g	70 (140)	100	1	HB0136
S-1600	Standard	C18	15µ	2090g	2.09-167.2g	90 (180)	100	1	HB0137
S-3000	Standard	C18	15µ	3750g	3.75-300.0g	110 (220)	100	1	HB0139

Purezza® - Other Phases

The **Purezza®** product line includes cartridges packed with a wide range of Bonded Phases in order to meet all of the purification challenges in your laboratory.

Purezza® Cartridges are available in both **Standard** and **Open-Load** formats and they are compatible with most Flash Chromatography instruments available on the market, including the newest.

Purezza® - Other Flash Cartridges Available								
Phase	Material Type			Porosity	Surface Area	Particle Size	Loading Capacity	Size
C18-AQ	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
C18-AQ	Silica	High Efficiency	Spherical	100Å	320m ² /g	50µ	0.1-2%	S-4 to S-330
C8	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
C8	Silica	High Quality	Spherical	100Å	300m ² /g	50µ	0.1-2%	S-4 to S-330
CN	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
C4	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
DIOL	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
DIOL	Silica	High Capacity	Spherical	50Å	700m ² /g	25µ	0.1-4%	S-4 to S-330
DIOL	Silica	Ultra Pure	Spherical	100Å	300m ² /g	50µ	0.1-2%	S-4 to S-330
DIOL	Silica	Ultra Pure	Irregular	60Å	500m ² /g	50µ	0.1-2%	S-4 to S-330
NH2	Silica	High Capacity	Spherical	50Å	700m ² /g	25µ	0.1-4%	S-4 to S-330
NH2	Silica	Ultra Pure	Irregular	60Å	500m ² /g	50µ	0.1-2%	S-4 to S-330
SAX	Silica	Ultra Pure	Irregular	60Å	500m ² /g	50µ	≤0.26 meq/g	S-4 to S-330
SCX	Silica	Ultra Pure	Irregular	60Å	500m ² /g	50µ	≤0.34 meq/g	S-4 to S-330
HILIC	Silica	High Efficiency	Spherical	100Å	320m ² /g	25µ	0.1-2%	S-4 to S-330
Alumina-N	Alumina	High Quality	Neutral	55Å	155m ² /g	50-75µ	0.1-4%	S-4 to S-330
Alumina-A	Alumina	High Quality	Acid	55Å	155m ² /g	50-75µ	0.1-4%	S-4 to S-330
Alumina-B	Alumina	High Quality	Basic	55Å	155m ² /g	50-75µ	0.1-4%	S-4 to S-330

If your purification then needs to use a packing material not listed in the above table, please contact us,

and we will make your Flash Cartridge for you !

Tips & Tricks

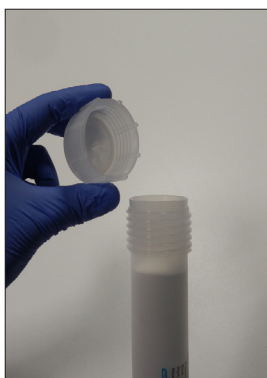
Easy Injection of **Oily and Sticky** Samples with Open-Load Flash Cartridges.

The injection of oily and sticky mixtures, which often happens in Reverse Phase applications, can be difficult when using the injection valve of the Flash Instrument.

The **Purezza® Open-Load** format has 15% volume available at the top of the Cartridges. This allows the user to load liquid samples directly onto the cartridge, after a conditioning step, and avoids high pressure manual injection of oily & sticky samples.

Using the **Purezza® Open-Load Cartridge** format this operation is very fast and very easy; here are the 4 simple steps to follow :

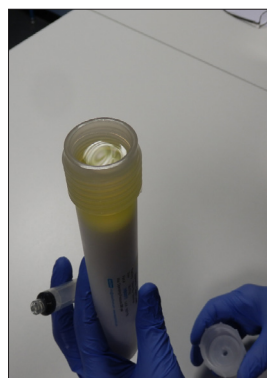
Step 1
Open your Cartridge



Step 2
Load your Oily & Sticky Sample using a Syringe



Step 3
Your Sample is Loaded on Top of the Cartridge



Step 4
Close the Cartridge and Connect it to the Flash Instrument !



PuriFlash® - High Performance Flash Cartridges

puriFlash® - Cartridges

The Interchim *puriFlash*® product line offers more than 50 different silica based media selectivities.

puriFlash® sorbents take advantage of ultra pure spherical silica, which achieves greater reproducibility, and establishes optimized sample recoveries.

They are compatible with most Flash Chromatography instruments available on the market.



Code	F0001	F0004	F0012	F0025	F0040	F0080	F0120	F0220	F0330	F0800	F1600
Ø int. (mm)	9	12	21	21	27	31	36	60	60	78	104
L (mm)	26	68	84	133	135	205	224	153	226	341	385
CV ₀ (mL)	1.2	5	19	32	48	102	153	269	405	1 078	2 170
Flowrate - Typical (mL/min)	2.5	5	15	15	26	34	46	127	127	216	383
Flowrate - Range (mL/min)	1 - 10	5 - 20	15 - 50	15 - 50	20 - 70	30 - 100	40 - 150	80 - 300	80 - 300	150 - 300	200 - 500

puriFlash® Packings in Flash Cartridges

Type	Material	Pore Size	Surface Area	Particle Size	Type	Material	Pore Size	Surface Area	Particle Size
Silica STD	Irregular Silica	60Å	450m ² /g	15µ & 50µ	NH2	Pure Silica	100Å	300m ² /g	15µ, 30µ & 50µ
Silica HC	High Capacity Silica	60Å	680m ² /g	15µ, 25µ & 50µ	NH2 HC	High Capacity Silica	60Å	680m ² /g	50µ
Silica HP	High Performance Silica	60Å	500m ² /g	15µ, 30µ & 50µ	SCX	Pure Silica	100Å	400m ² /g	50µ
Diol	Pure Silica	60Å	500m ² /g	15µ, 30µ & 50µ	SAX	Pure Silica	60Å	500m ² /g	50µ
Cyano	Pure Silica	60Å	500m ² /g	15µ & 50µ	X	PSDVB	100Å	800m ² /g	40µ
MM1 Alkyl Chain/ SAX	Pure Silica	100Å	400m ² /g	50µ	P6	Polyamide 6	60Å		100µ
RP-AQ	Pure Silica	60Å	500m ² /g	15µ & 30µ	Alumine N	Neutral Alumina	60Å	200m ² /g	32/63µ
C18-AQ	Pure Silica	100Å	300m ² /g	15µ & 30µ	Alumine B	Basic Alumina	60Å	200m ² /g	32/63µ
C18-STD	Irregular Silica	60Å	450m ² /g	50µ	Chiral IA	Spherical Silica IA Amylose Tris			20µ
C18-HP	Pure Silica	100Å	300m ² /g	15µ, 30µ & 50µ	Chiral IC	Spherical Silica IC Cellulose Tris			20µ
C18-XS	Pure Silica	100Å	300m ² /g	15µ & 30µ	Chiral ID	Spherical Silica ID Amylose Tris			20µ
C18-HQ	High Quality Silica	100Å	425m ² /g	15µ	Chiral OD-I	Spherical Silica OD-I Cellulose Tris			20µ
PHC4 Phenyl/Butyl	Ultra Pure Silica	100Å	300m ² /g	15µ	Activated Carbon				
HILIC-HIA	Ultra Pure Silica	100Å	300m ² /g	15µ					
Silica HP AGNO ₃	Pure Silica	60Å	500m ² /g	50µ					

Purezza® - ESL Empty Solid Loader

The **Purezza® - ESL Empty Solid Loader** hardware is made with a Pharmaceutical grade Polypropylene material to ensure virtually zero cross contamination and it is ideal for reliable and reproducible purification.

They are compatible with most Flash Chromatography instruments available on the market. The high pressure limits ensure they can be used with the newest Flash Chromatography systems on the market.

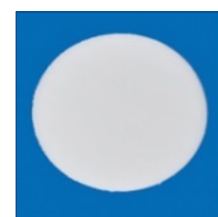
The **Purezza® - ESL Empty Solid Loader** can be used for two main purposes :

- 1 - when you need to prepare your Solid Sample for Solid Injection mode
- 2 - when you want to pack your own Flash Cartridges with your selected media

Purezza® ESL Empty Solid Loader					
Size	Type	Volume (mL)	Max Pressure (psi)	Qty/Box	Part.No.
S-4	ESL Empty Solid Loader 4g	8	200	10	HE0001
S-12	ESL Empty Solid Loader 12g	27	200	10	HE0002
S-25	ESL Empty Solid Loader 25g	46	200	10	HE0003
S-40	ESL Empty Solid Loader 40g	70	200	10	HE0004
S-80	ESL Empty Solid Loader 80g	147	200	5	HE0006
S-120	ESL Empty Solid Loader 120g	215	150	5	HE0008
S-220	ESL Empty Solid Loader 220g	377	150	5	HE0009
S-330	ESL Empty Solid Loader 330g	539	100	5	HE0010



Top Frits for Purezza® ESL Empty Solid Loader					
Size	Description	Porosity	Qty/Box	Part.No.	
S-4	Top Frit for 4g ESL Empty Solid Loader	16-20µ	10	HE0011	
S-12	Top Frit for 12g ESL Empty Solid Loader	16-20µ	10	HE0012	
S-25	Top Frit for 25g ESL Empty Solid Loader	16-20µ	10	HE0013	
S-40	Top Frit for 40g ESL Empty Solid Loader	16-20µ	10	HE0014	
S-80	Top Frit for 80g ESL Empty Solid Loader	20-25µ	10	HE0015	
S-120	Top Frit for 120g ESL Empty Solid Loader	20-25µ	5	HE0026	
S-220	Top Frit for 220g ESL Empty Solid Loader	20-25µ	5	HE0016	
S-330	Top Frit for 330g ESL Empty Solid Loader	20-25µ	5	HE0017	



Purezza® ESL Empty Solid Loader					
Size	Type	Volume (mL)	Max Pressure (psi)	Qty	Part.No.
S-800	ESL Empty Solid Loader 800 - Complete Kit	1395	100	1	HE0001
S-1600	ESL Empty Solid Loader 1600 - Complete Kit	2760	100	1	HE0002
S-3000	ESL Empty Solid Loader 3000 - Complete Kit	5165	100	1	HE0051
S-800/1600/3000	Assembly Kit (SS Cap, O-ring & Hoop)	-	-	1	HE0052
S-800/1600/3000	Top Frit for Large Scale ESL Empty Solid Loader	-	-	1	HE0056
S-800/1600/3000	Bottom Frit for Large Scale ESL Empty Solid Loader	-	-	1	HE0057
S-800/1600/3000	O-Ring for Large Scale ESL Empty Solid Loader	-	-	1	HE0058
S-800/1600/3000	Adapter Kit for 1/8" OD Tubing	-	-	1	HE0059
S-800/1600/3000	Adapter Kit for 3/16" OD Tubing	-	-	1	HE0060
S-800/1600/3000	Adapter Kit for 1/4" OD Tubing	-	-	1	HE0061



Flash Chromatography Accessories

A complete range of accessories you need for your daily separation completes the **Purezza®** product line.

Accessories		
Description	Qty	Part.No.
Frit Inserter for size S-4 Purezza® Cartridge - Standard - Open-Load and ESL Empty Solid Loader	1	HE0018
Frit Inserter for size S-12 / S-25 & S-40 Cartridge - Standard - Open-Load and ESL Empty Solid Loader	1	HE0019
Frit Inserter for size S-80 & S-120 Cartridge - Standard - Open-Load and ESL Empty Solid Loader	1	HE0020
Frit Inserter for size S-220 & S-330 Cartridge - Standard - Open-Load and ESL Empty Solid Loader	1	HE0021
Luer connector kit for S-800 - S-1600 & S-3000 Cartridges	1	HE0022
Flagless Nut for 1/8" Tubing (Max Pressure 1000psi)	10	HE0023
Flangless Ferrule for 1/8" Tubing (Max Pressure 1000psi)	10	HE0024
Teflon 1/8" Tubing	3mt	HE0025



Other products available from SepaChrom

HPLC

HPLC Silica Based Columns for Routine Analysis
 HPLC & UHPLC Silica Based Columns for Small Molecules Separation
 HPLC Silica Based Columns for Large Molecules Separation
 HPLC Silica Based Columns for Traditional Chinese Medicine
 Polymer Base Columns for Carbohydrate & Organic Acids Analysis Chiral HPLC Columns
 Ion Chromatography Columns for Anions and Cations Analysis

VYdamas®



ROBUSTA®

Adamas®

MEDIA

Irregular & Spherical Silica Gel for Flash, Preparative & Industrial Purification
 Raw & Bonded Silica Gel for Any Application
 Wide Range Porosity (30Å- 2500Å) and Particle Size (10µ-200µ)
 Polymer Based Resin for Reversed Phase and Ion Exchange Chromatography

PREP

10mm - 50mmID Packed Preparative Columns for Lab Scale Purification packed by SepaChrom
 50mm - 2000mmID Process Scale Chromatography Columns & Systems, Flanged & DAC Technology
 OEM Packed Preparative Columns
 Scale-up Method Development & Custom Packing Service

ROBUSTA®

Adamas®

VYdamas®

FLASH

Instruments for Flash and Prep Chromatography up to 825mL/min & 400 bar pressure
 Integrated ELSD & MS Simple Quad Detector for Flash Purification
 TLC Plates and Accessories for Flash Chromatography
 A Complete Range of Flash Columns for All Existing Flash Instruments

turezza

Advion Interchim

SPE

SEClute™, Extract-Clean™, Maxi-Clean™ SPE Cartridges for Pharma, Environmental, Food&Beverage Applications.
 PuroPhase™ Polymer Base SPE Cartridges for Clinical & Forensic Applications.
 Maxi-Clean™ Ion Chromatography SPE Cartridges
 Vydac® - Bioselect SPE Cartridges for Biological Samples
 Accessories for SPE & Syringe Filters

OTHER INSTRUMENTS

SepaChrom Hydrogen, Nitrogen and Air Generators for GC
 SepaChrom Nitrogen Generators for LC-MS
 Automated Sample Evaporators for Lab Scale Purification
 Interchim Advion CMS Compact Mass Spectrometer Detector

CONSUMABLE

Autosampler Vials for HPLC, IC e GC
 Head Space and Sampling Vials
 SS & PEEK Tubing, Fittings, Ferrule & Valves
 Syringes and Septa for GC
 Traps for GC Gas Lines