

# Purification

Flash Cartridges, Bulk Materials, LC Columns & empty Flash Cartridges



Available in different selectivities

Dedicated 300 Å wide pore materials

Particle size from 5 µm to 50 µm

Flash cartridges from 4 g to 3 kg

LC Columns from 4.6 mm to 50.0 mm ID

Compatible with all instruments on the market

## Features

BGB Flash Cartridges are ultra-pure silica-based flash cartridges with tight particle size distribution and high surface area. Available in 50 µm, 30 µm and 15 µm particle size for difficult separation. Pressure-rated up to 27.5 bar (400 psi) for high flow rate and fast purification. Reduction of purification time by 40-60 %. More concentrated fractions for easy evaporation and less solvent consumption.

- 100 % guaranteed leak-free.
- Body in pharmaceutical-grade polypropylene.
- Closed-top spin-welded technology for standard hardware sizes. Pressure up to 27.5bar (400 psi).
- Possibility of working at high flow rates for fast purifications.
- Also available in 800g, 1.6kg and 3 kg formats.
- Luer and/or luer-lock connection for standard hardware types.
- Packed with ultra-pure silica-based material.
- Available in Silica (Si), C18, C8, C4, Cyano (CN), Diol (OH), Amino (NH<sub>2</sub>) and HILIC-D
- Dedicated 300 Å wide pore spherical materials in C18, C8 and C4 for peptides and proteins purification.
- Excellent lot-to-lot reproducibility.
- 0 to 40°C



### Compatibility

BGB Flash Cartridges are compatible with all instruments on the market: Agela, Analogix, Armen Instrument, Biotage, Büchi, ECOM, GE ÄKTA, Gilson, Grace, Interchim Puriflash, Teledyne Isco, Yamazen, Santai SepaBean, etc.

Different adapters are available. Please refer to [www.bgb-shop.com/luer-adapters](http://www.bgb-shop.com/luer-adapters).

### Pressure limit

BGB Flash Cartridges use a spin-welded technology that makes it possible to use the column up to 27.5 bar (400 psi) depending on column size. Please refer to the maximum pressure specified on each column and never exceed this value (for details check tables on page 4 and 5).

### Easy-Multi-Luer Outlet

BGB Flash Cartridges in hardware W004 to W330 have a female luer-lock inlet and an Easy-Multi-Luer outlet (figure 2). To get a male luer tip, just remove the orange plug by pulling it down (figure 1). To have a luer-lock connection, simply unscrew the luer fitting by using the orange plug as a tool (figure 3).



Figure 1



Figure 2



Figure 3

# Basic Information

## Report Sheet

All boxes of BGB Flash Cartridges contain a report sheet. Every lot of filling material is tested to ensure good lot-to-lot reproducibility and the highest quality standard.

## Label

Each BGB Flash Cartridge comes with a label including a full description of the phase with lot number and indicating the best parameters for column use as flow rate, maximum pressure and sample loading (figure 4).

## Storage before use

Before use, store the cartridges in a dry place, away from light and dust, and at room temperature. The orange plugs must not be removed before the first use.

## Conditioning

This stage is crucial to achieve the maximum performance of your column. It activates the silica and removes the air from the cartridge. For optimum purification, this step must be performed prior to the sample load. Rinse the column with 3 to 5 column volumes depending on the phase and the column size. Generally, the solvent (or mixture of solvents) for this step is the one used at the beginning of the purification.

BE CAREFUL, and note that the use of a strong eluent for the conditioning will result in poor separation because of the high affinity of the solvent for the compounds to be purified. Depending of the solvent (or mixture of solvents) used, a normal heating phenomena can appear during this stage. To minimize this effect, and avoid a too much temperature increase, we strongly recommend to be at the lowest part of the flow rate range mentioned on the column. Drying the cartridge after the conditioning step will also result in a loss of column performance.

## Storage after use

Normal phase silica and alumina cartridges are single use columns and should not be stored or re-used. For the bonded phases C18, C8, C4, Cyano (CN), Diol (OH), Amino (NH<sub>2</sub>) and HILIC please refer to the table below. Please note that the orange plugs at the inlet and at the outlet of the cartridge must always be in place to avoid solvent evaporation.

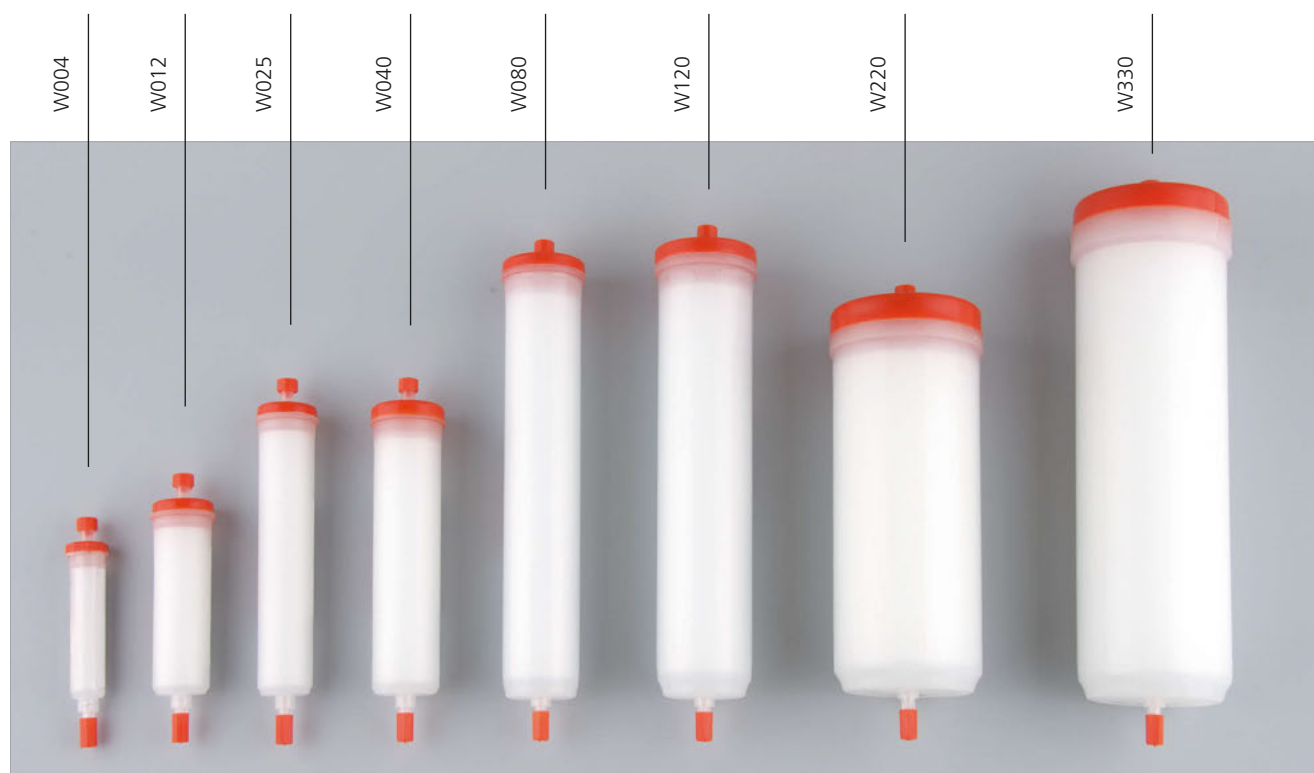


Figure 4

Stationary Phase	Activation			Cleaning	Storage
Scorpius C18e-HP Taurus C18T Taurus C8T Taurus C4T	Rinse 3 to 5 column volumes with a mixture of Water/ACN (70/30) or Water/MeOH (80/20). A minimum of 3 % organic is necessary to keep the activation.			Rinse 3 to 5 column volumes with the strongest solvent (100 %) to remove impurities.	Flush the column with miscible solvents to reach at least 50 % ACN (or MeOH) and 50 % water or 100 % iPrOH
Aquarius C18AQ	Rinse the column with Water/MeOH (50/50). Depending of the mobile phase, rinse for 3 to 5 column volumes with 100% water.			Rinse 3 to 5 column volumes with the strongest solvent (100%) to remove impurities.	Flush the column with miscible solvents to reach at least 50 % ACN (or MeOH) and 50 % water or 100 % iPrOH
Scorpius Cyano Scorpius Diol Scorpius Amino	<b>Normal phase</b> Rinse 3 to 5 column volumes with 100 % heptane.	<b>Reversed phase</b> Rinse 3 to 5 column volumes with a mixture of Water/ACN (70/30) or Water/MeOH (80/20). A minimum of 3 % of organic is necessary to keep the activation.	<b>HILIC</b> Rinse 3 to 5 column volumes with a mixture of ACN/Water (70/30).	Rinse 3 to 5 column volumes with the strongest solvent (100 %) to remove impurities.	Flush the column with 6 to 8 column volumes with miscible solvents to reach at least 50 % ACN (or MeOH) and 50 % water or 100 % iPrOH
Aquarius HILIC-D Aquarius HILIC-ARG	Rinse 3 to 5 column volumes with a mixture of ACN/Water (70/30).			Rinse 3 to 5 column volumes with the strongest solvent (100 %) to remove impurities.	Flush with 6 to 8 column volumes with miscible solvents to reach 100 % ACN.

# Cartridge Hardware

## Cartridge Hardware Standard Sizes (Spin-Welded Technology)



### Hardware Parameters

Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	50 µm Particle Size	30 µm Particle Size
W004	12.4 mm	56 mm	5.1 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W012	21.4 mm	73 mm	19.7 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W025	21.4 mm	123.5 mm	33.3 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W040	26.7 mm	117.6 mm	49.4 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W080	31.2 mm	185 mm	106 ml	24.0 bar (350 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W120	38.6 mm	189 mm	165.8 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W220	61.4 mm	139.5 mm	309.6 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W330	61.4 mm	199.2 mm	442.1 ml	17.0 bar (250 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

\* All frits are made of polyethylene (PE).

## Cartridge Hardware Large-Scale Purification



### Hardware Parameters

Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	50 µm Particle Size	30 µm Particle Size
S0800	78.2 mm	313.3 mm	1128 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S1600	103.8 mm	353.7 mm	2244 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S3000	127.5 mm	418.0 mm	4000 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

\* All frits are made of polyethylene (PE).

# Adapters for Large-Scale Cartridges

## Adapters for S0800, S1600 and S3000 Flash Column Hardware



Stainless-Steel  
adapter for  
inlet port



PEEK  
adapter for  
outlet port

These adapters (stainless-steel luer-lock inlet and PEEK luer outlet) have to be used with BGB column hardware S800, S1600 and S3000 (please see page 5). They can be connected to any kind of luer connection.

**Luer-lock inlet:** The stainless-steel inlet adapter is designed with a thread on half of the length and a smooth part on the other half. The thread is supposed to fit into the plastic when you screw in (figure 6). You have to screw it until the smooth part is engaged a few millimeters deep to insure a truly leak-free connection (figure 7). This can be installed by hand and needs to be screwed in manually.

**Luer outlet:** The PEEK outlet adapter has to be firmly inserted into the column outlet to insure a truly leak-free connection (figure 9).

How to connect your large-scale cartridge to luer connections.



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10

### Ordering Information



Part No.	Description	Qty.
BSLK	BGB luer adapter kit (inlet & outlet) for S800, S1600 and S3000 cartridge hardware	ea.

# Analytical & Preparative HPLC columns

BGB Analytical & Preparative HPLC columns have been designed to offer you the easiest way to develop your reversed phase methods and to scale-up your purifications with strictly the same material in term of stationary phase, particle size and pore size. All bonded phases are available in classical stainless steel analytical HPLC columns (4.6 x 150 mm and 4.6 x 250 mm), preparative HPLC columns (I.D. from 21.2 to 50 mm) and plastic flash cartridges (4g to 3kg of phase) to offer you a large choice of possibilities in term of development and scale-up.

Because of the use of standard 10–32 fittings, BGB HPLC columns are compatible with all HPLC systems on the market.

## Features include

- High quality SS analytical columns with dimensions of 4.6 x 150 mm and/or 4.6 x 250 mm.
- Preparative HPLC columns with I.D. from 21.2 mm to 50.0 mm.
- Strictly similar bonded phases as those used for our flash cartridges for easy scale-up.
- Available in Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T.
- Dedicated Taurus 300Å wide pore materials for peptides and proteins purification.
- Particle size of 5 µm, 10 µm, 15 µm and 30 µm.
- Compatible with all HPLC systems on the market.

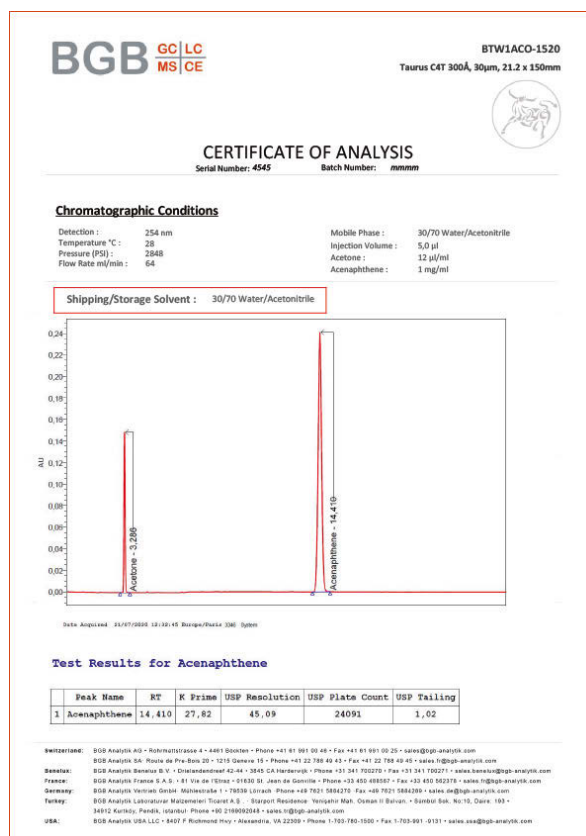


## Column parameters

Hardware	Thread	Inner Diameter	Length	Max. Pressure	Frits
Analytical	10–32	4.6 mm	150 mm	480 bar (7'000 psi)	2 µm
			250 mm		
Semi preparative	10–32	21.2 mm	150 mm	400 bar (6'000 psi)	2 µm
			250 mm		
Preparative	10–32	30.0 mm	150 mm	400 bar (6'000 psi)	2 µm
		50.0 mm	250 mm		

## Column certificate

All BGB HPLC columns are individually tested to ensure a high quality and reproducibility from column to column and lot to lot. Each column is delivered with its own analysis report and wear a sticker indicating part number, column type, dimensions, serial number and flow direction.

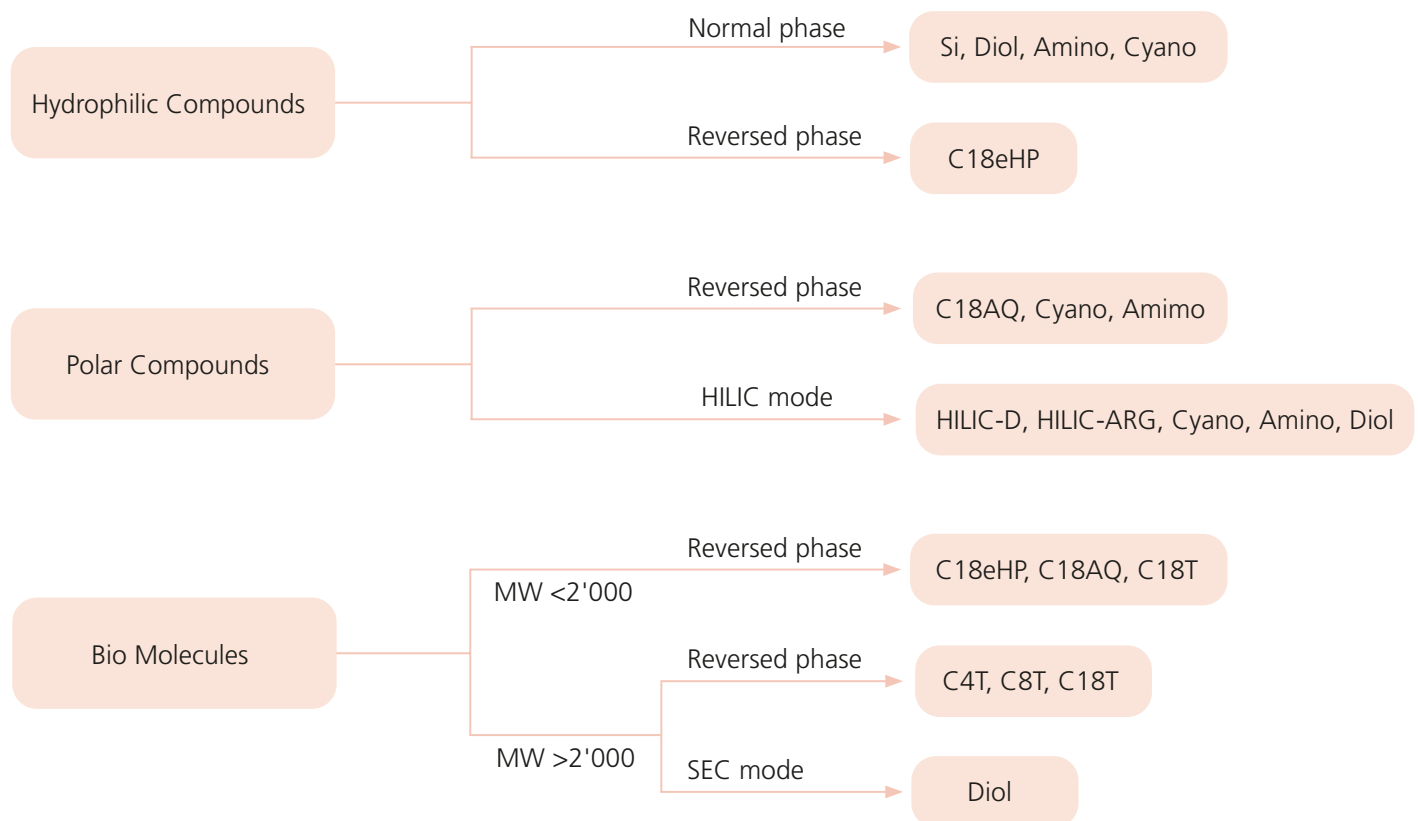


## Bulk material

Additionally to our HPLC columns and our flash cartridges, BGB Analytik proposes also the possibility to order the spherical bulk materials bonded phases for Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T. In boxes of 100g or 1kg, all these phases are available in 5  $\mu\text{m}$ , 10  $\mu\text{m}$ , 15  $\mu\text{m}$  or 30  $\mu\text{m}$  particle size. Combined with our empty flash cartridge portfolio, it offers you the possibility to pack your own column or to have the right phase to make your dry load. It allows you also the possibility to pack your own preparative columns with all self-packing instruments available on the market.

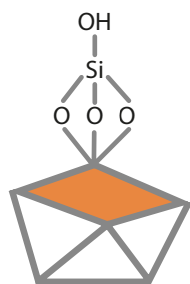


### BGB Selection Guide





# BGB Scorpius Silica

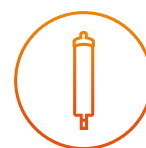


<b>Phase:</b>	Irregular Ultra-Pure Silica	
<b>Particle Size:</b>	30 µm	50 µm
<b>Pore Size:</b>	60 Å	60 Å
<b>Surface Area:</b>	500 m <sup>2</sup> /g	500 m <sup>2</sup> /g
<b>Endcapped:</b>	n.a.	n.a.
<b>Carbon Load:</b>	n.a.	n.a.
<b>pH Range:</b>	2–8	2–8

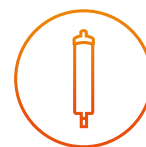


## BGB Scorpius Silica (Si) Flash Cartridges

Part No.	Description	Qty.
BSS2AF-W004	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 4 g	pk.20
BSS2AF-W012	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 12 g	pk.18
BSS2AF-W025	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 25 g	pk.12
BSS2AF-W040	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 40 g	pk.12
BSS2AF-W080	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 80 g	pk.10
BSS2AF-W120	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 120 g	pk.10
BSS2AF-W220	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 220 g	pk.6
BSS2AF-W330	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 330 g	pk.5
BSS2AF-S0800	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 800 g	ea.
BSS2AF-S1600	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 1.6 kg	ea.
BSS2AF-S3000	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 µm (25–40 µm), 3 kg	ea.



Part No.	Description	Qty.
BSS2CF-W004	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 4 g	pk.20
BSS2CF-W012	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 12 g	pk.18
BSS2CF-W025	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 25 g	pk.12
BSS2CF-W040	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 40 g	pk.12
BSS2CF-W080	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 80 g	pk.10
BSS2CF-W120	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 120 g	pk.10
BSS2CF-W220	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 220 g	pk.6
BSS2CF-W330	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 330 g	pk.5
BSS2CF-S0800	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 800 g	ea.
BSS2CF-S1600	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 1.6 kg	ea.
BSS2CF-S3000	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 µm (40–63 µm), 3 kg	ea.

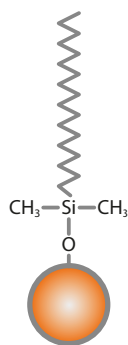


**ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware  
see page 24–29

# BGB Scorpius C18e-HP

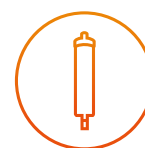


Phase:	Spherical Ultra-Pure C18 monomeric bonded				
<b>Particle Size:</b>	5 µm	10 µm	15 µm	30 µm	50 µm
<b>Pore Size:</b>	100 Å	100 Å	100 Å	100 Å	120 Å
<b>Surface Area:</b>	320 m <sup>2</sup> /g	320 m <sup>2</sup> /g	320 m <sup>2</sup> /g	320 m <sup>2</sup> /g	300 m <sup>2</sup> /g
<b>Endcapped:</b>	yes	yes	yes	yes	yes
<b>Carbon Load:</b>	17 %	17 %	17 %	17 %	17 %
<b>pH Range:</b>	2–8	2–8	2–8	2–8	2–8



## BGB Scorpius C18e-HP Flash Cartridges

Part No.	Description	Qty.
<b>BSE1AF-W004</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 5.4 g	pk.2
<b>BSE1AF-W012</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 20 g	ea.
<b>BSE1AF-W025</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 33 g	ea.
<b>BSE1AF-W040</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 48 g	ea.
<b>BSE1AF-W080</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 105 g	ea.
<b>BSE1AF-W120</b>	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 155 g	ea.
<b>BSE1AF-W220</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 300 g	ea.
<b>BSE1AF-W330</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 420 g	ea.
<b>BSE1AF-S0800</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 1.08 kg	ea.
<b>BSE1AF-S1600</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 2.14 kg	ea.
<b>BSE1AF-S3000</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 3.83 kg	ea.



Part No.	Description	Qty.
<b>BSC1CF-W004</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 4.5 g	pk.2
<b>BSC1CF-W012</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 18 g	ea.
<b>BSC1CF-W025</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 28 g	ea.
<b>BSC1CF-W040</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 40 g	ea.
<b>BSC1CF-W080</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 90 g	ea.
<b>BSC1CF-W120</b>	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 130 g	ea.
<b>BSC1CF-W220</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 245 g	ea.
<b>BSC1CF-W330</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 350 g	ea.
<b>BSC1CF-S0800</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 900 g	ea.
<b>BSC1CF-S1600</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 1.78 kg	ea.
<b>BSC1CF-S3000</b> ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 3.2 kg	ea.



⚠ **ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

## BGB Scorpius C18e-HP Bulk Material

Part No.	Description	Qty.
<b>BSE1IB-K1</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 5 µm, 100 g	ea.
<b>BSE1IB-K4</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 5 µm, 1 kg	ea.
<b>BSE1JB-K1</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 10 µm, 100 g	ea.
<b>BSE1JB-K4</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 10 µm, 1 kg	ea.
<b>BSE1KB-K1</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 15 µm, 100 g	ea.
<b>BSE1KB-K4</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 15 µm, 1 kg	ea.
<b>BSE1AB-K1</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 30 µm, 100 g	ea.
<b>BSE1AB-K4</b>	BGB Scorpius Bulk Material, C18e-HP 100 Å, 30 µm, 1 kg	ea.



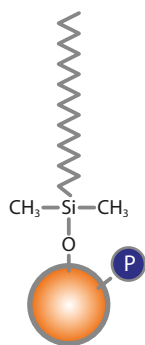
## BGB Scorpius C18e-HP HPLC Columns

Part No.	Description	Qty.
<b>BSE1ICO-1505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 150 mm	ea.
<b>BSE1ICO-2505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 250 mm	ea.
<b>BSE1ICO-1520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 150 mm	ea.
<b>BSE1ICO-2520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 250 mm	ea.
<b>BSE1JCO-1505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 150 mm	ea.
<b>BSE1JCO-2505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 250 mm	ea.
<b>BSE1JCO-1520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 150 mm	ea.
<b>BSE1JCO-2520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 250 mm	ea.
<b>BSE1JCO-1530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 150 mm	ea.
<b>BSE1JCO-2530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 250 mm	ea.
<b>BSE1JCO-1550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 150 mm	ea.
<b>BSE1JCO-2550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 250 mm	ea.
<b>BSE1KCO-1505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 150 mm	ea.
<b>BSE1KCO-2505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 250 mm	ea.
<b>BSE1KCO-1520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 150 mm	ea.
<b>BSE1KCO-2520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 250 mm	ea.
<b>BSE1KCO-1530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 150 mm	ea.
<b>BSE1KCO-2530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 250 mm	ea.
<b>BSE1KCO-1550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 150 mm	ea.
<b>BSE1KCO-2550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 250 mm	ea.
<b>BSE1ACO-1505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 150 mm	ea.
<b>BSE1ACO-2505</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 250 mm	ea.
<b>BSE1ACO-1520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 150 mm	ea.
<b>BSE1ACO-2520</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 250 mm	ea.
<b>BSE1ACO-1530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 150 mm	ea.
<b>BSE1ACO-2530</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 250 mm	ea.
<b>BSE1ACO-1550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 150 mm	ea.
<b>BSE1ACO-2550</b>	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware  
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# BGB Aquarius C18AQ (Polar Endcapped)



<b>Phase:</b>	Spherical Ultra-Pure C18 monomeric bonded polar endcapped			
<b>Particle Size:</b>	5 $\mu\text{m}$	10 $\mu\text{m}$	15 $\mu\text{m}$	30 $\mu\text{m}$
<b>Pore Size:</b>	100 $\text{\AA}$	100 $\text{\AA}$	100 $\text{\AA}$	100 $\text{\AA}$
<b>Surface Area:</b>	320 $\text{m}^2/\text{g}$	320 $\text{m}^2/\text{g}$	320 $\text{m}^2/\text{g}$	320 $\text{m}^2/\text{g}$
<b>Endcapped:</b>	yes	yes	yes	yes
<b>Carbon Load:</b>	10%	10%	10%	10%
<b>pH Range:</b>	2–8	2–8	2–8	2–8



## BGB Aquarius C18AQ Flash Cartridges

Part No.	Description	Qty.
BAC5KF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 5.4 g	pk.2
BAC5KF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 20 g	ea.
BAC5KF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 33 g	ea.
BAC5KF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 48 g	ea.
BAC5KF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 105 g	ea.
BAC5KF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 155 g	ea.
BAC5KF-W220	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 290 g	ea.
BAC5KF-W330	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 410 g	ea.
BAC5KF-S0800	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 1.05 kg	ea.
BAC5KF-S1600	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 2.09 kg	ea.
BAC5KF-S3000	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 15 $\mu\text{m}$ , 3.75 kg	ea.



Part No.	Description	Qty.
BAC5AF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 5.4 g	pk.2
BAC5AF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 20 g	ea.
BAC5AF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 33 g	ea.
BAC5AF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 48 g	ea.
BAC5AF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 105 g	ea.
BAC5AF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 155 g	ea.
BAC5AF-W220	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 300 g	ea.
BAC5AF-W330	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 420 g	ea.
BAC5AF-S0800	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 1.08 kg	ea.
BAC5AF-S1600	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 2.14 kg	ea.
BAC5AF-S3000	BGB Aquarius Flash Cartridge, C18AQ 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 3.83 kg	ea.



**ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

## BGB Aquarius C18AQ Bulk Material

Part No.	Description	Qty.
<b>BAC5IB-K1</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 100g	ea.
<b>BAC5IB-K4</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 1 kg	ea.
<b>BAC5JB-K1</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 100g	ea.
<b>BAC5JB-K4</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 1 kg	ea.
<b>BAC5KB-K1</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 100g	ea.
<b>BAC5KB-K4</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 1 kg	ea.
<b>BAC5AB-K1</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 100g	ea.
<b>BAC5AB-K4</b>	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 1 kg	ea.



## BGB Aquarius C18AQ HPLC Columns

Part No.	Description	Qty.
<b>BAC5ICO-1505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 150 mm	ea.
<b>BAC5ICO-2505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 250 mm	ea.
<b>BAC5ICO-1520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 150 mm	ea.
<b>BAC5ICO-2520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 250 mm	ea.
<b>BAC5JCO-1505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 150 mm	ea.
<b>BAC5JCO-2505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 250 mm	ea.
<b>BAC5JCO-1520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 150 mm	ea.
<b>BAC5JCO-2520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 250 mm	ea.
<b>BAC5JCO-1530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 150 mm	ea.
<b>BAC5JCO-2530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 250 mm	ea.
<b>BAC5JCO-1550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 150 mm	ea.
<b>BAC5JCO-2550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 250 mm	ea.
<b>BAC5KCO-1505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 150 mm	ea.
<b>BAC5KCO-2505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 250 mm	ea.
<b>BAC5KCO-1520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 150 mm	ea.
<b>BAC5KCO-2520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 250 mm	ea.
<b>BAC5KCO-1530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 150 mm	ea.
<b>BAC5KCO-2530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 250 mm	ea.
<b>BAC5KCO-1550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 150 mm	ea.
<b>BAC5KCO-2550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 250 mm	ea.
<b>BAC5ACO-1505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 150 mm	ea.
<b>BAC5ACO-2505</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 250 mm	ea.
<b>BAC5ACO-1520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 150 mm	ea.
<b>BAC5ACO-2520</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 250 mm	ea.
<b>BAC5ACO-1530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 150 mm	ea.
<b>BAC5ACO-2530</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 250 mm	ea.
<b>BAC5ACO-1550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 150 mm	ea.
<b>BAC5ACO-2550</b>	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware  
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# BGB Taurus C18T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C18 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	10%	10%	10%	10%
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



## BGB Taurus C18T Flash Cartridges

Part No.	Description	Qty.
BTW6KF-W004	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW6KF-W012	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 16 g	ea.
BTW6KF-W025	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 26 g	ea.
BTW6KF-W040	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 38 g	ea.
BTW6KF-W080	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 82 g	ea.
BTW6KF-W120	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 120 g	ea.
BTW6KF-W220	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 225 g	ea.
BTW6KF-W330	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW6AF-W004	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW6AF-W012	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 16 g	ea.
BTW6AF-W025	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 26 g	ea.
BTW6AF-W040	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 38 g	ea.
BTW6AF-W080	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 82 g	ea.
BTW6AF-W120	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 120 g	ea.
BTW6AF-W220	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 225 g	ea.
BTW6AF-W330	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

## BGB Taurus C18T Bulk Material

Part No.	Description	Qty.
<b>BTW6IB-K1</b>	BGB Taurus Bulk Material, C18T 300Å, 5µm, 100g	ea.
<b>BTW6IB-K4</b>	BGB Taurus Bulk Material, C18T 300Å, 5µm, 1kg	ea.
<b>BTW6JB-K1</b>	BGB Taurus Bulk Material, C18T 300Å, 10µm, 100g	ea.
<b>BTW6JB-K4</b>	BGB Taurus Bulk Material, C18T 300Å, 10µm, 1kg	ea.
<b>BTW6KB-K1</b>	BGB Taurus Bulk Material, C18T 300Å, 15µm, 100g	ea.
<b>BTW6KB-K4</b>	BGB Taurus Bulk Material, C18T 300Å, 15µm, 1kg	ea.
<b>BTW6AB-K1</b>	BGB Taurus Bulk Material, C18T 300Å, 30µm, 100g	ea.
<b>BTW6AB-K4</b>	BGB Taurus Bulk Material, C18T 300Å, 30µm, 1kg	ea.



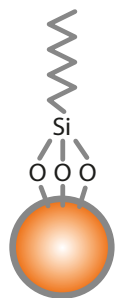
## BGB Taurus C18T HPLC Columns

Part No.	Description	Qty.
<b>BTW6ICO-1505</b>	BGB Taurus HPLC Column, C18T 300Å, 5µm, 4.6 x 150mm	ea.
<b>BTW6ICO-2505</b>	BGB Taurus HPLC Column, C18T 300Å, 5µm, 4.6 x 250mm	ea.
<b>BTW6ICO-1520</b>	BGB Taurus HPLC Column, C18T 300Å, 5µm, 21.2 x 150mm	ea.
<b>BTW6ICO-2520</b>	BGB Taurus HPLC Column, C18T 300Å, 5µm, 21.2 x 250mm	ea.
<b>BTW6JCO-1505</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 4.6 x 150mm	ea.
<b>BTW6JCO-2505</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 4.6 x 250mm	ea.
<b>BTW6JCO-1520</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 21.2 x 150mm	ea.
<b>BTW6JCO-2520</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 21.2 x 250mm	ea.
<b>BTW6JCO-1530</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 30.0 x 150mm	ea.
<b>BTW6JCO-2530</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 30.0 x 250mm	ea.
<b>BTW6JCO-1550</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 50.0 x 150mm	ea.
<b>BTW6JCO-2550</b>	BGB Taurus HPLC Column, C18T 300Å, 10µm, 50.0 x 250mm	ea.
<b>BTW6KCO-1505</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 4.6 x 150mm	ea.
<b>BTW6KCO-2505</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 4.6 x 250mm	ea.
<b>BTW6KCO-1520</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 21.2 x 150mm	ea.
<b>BTW6KCO-2520</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 21.2 x 250mm	ea.
<b>BTW6KCO-1530</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 30.0 x 150mm	ea.
<b>BTW6KCO-2530</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 30.0 x 250mm	ea.
<b>BTW6KCO-1550</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 50.0 x 150mm	ea.
<b>BTW6KCO-2550</b>	BGB Taurus HPLC Column, C18T 300Å, 15µm, 50.0 x 250mm	ea.
<b>BTW6ACO-1505</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 4.6 x 150mm	ea.
<b>BTW6ACO-2505</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 4.6 x 250mm	ea.
<b>BTW6ACO-1520</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 21.2 x 150mm	ea.
<b>BTW6ACO-2520</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 21.2 x 250mm	ea.
<b>BTW6ACO-1530</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 30.0 x 150mm	ea.
<b>BTW6ACO-2530</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 30.0 x 250mm	ea.
<b>BTW6ACO-1550</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 50.0 x 150mm	ea.
<b>BTW6ACO-2550</b>	BGB Taurus HPLC Column, C18T 300Å, 30µm, 50.0 x 250mm	ea.



Empty Flash column hardware  
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# BGB Taurus C8T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C8 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	5 %	5 %	5 %	5 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



## BGB Taurus C8T Flash Cartridges

Part No.	Description	Qty.
BTW0KF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW0KF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 16 g	ea.
BTW0KF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 26 g	ea.
BTW0KF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 38 g	ea.
BTW0KF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 82 g	ea.
BTW0KF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 120 g	ea.
BTW0KF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 225 g	ea.
BTW0KF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW0AF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW0AF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 16 g	ea.
BTW0AF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 26 g	ea.
BTW0AF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 38 g	ea.
BTW0AF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 82 g	ea.
BTW0AF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 120 g	ea.
BTW0AF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 225 g	ea.
BTW0AF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



## BGB Taurus C8T Bulk Material

Part No.	Description	Qty.
<b>BTW0IB-K1</b>	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 100 g	ea.
<b>BTW0IB-K4</b>	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 1 kg	ea.
<b>BTW0JB-K1</b>	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 100 g	ea.
<b>BTW0JB-K4</b>	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 1 kg	ea.
<b>BTW0KB-K1</b>	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 100 g	ea.
<b>BTW0KB-K4</b>	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 1 kg	ea.
<b>BTW0AB-K1</b>	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 100 g	ea.
<b>BTW0AB-K4</b>	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 1 kg	ea.



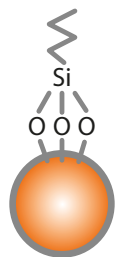
## BGB Taurus C8T HPLC Columns

Part No.	Description	Qty.
<b>BTW0ICO-1505</b>	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 150 mm	ea.
<b>BTW0ICO-2505</b>	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 250 mm	ea.
<b>BTW0ICO-1520</b>	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 150 mm	ea.
<b>BTW0ICO-2520</b>	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 250 mm	ea.
<b>BTW0JCO-1505</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 150 mm	ea.
<b>BTW0JCO-2505</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 250 mm	ea.
<b>BTW0JCO-1520</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 150 mm	ea.
<b>BTW0JCO-2520</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 250 mm	ea.
<b>BTW0JCO-1530</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 150 mm	ea.
<b>BTW0JCO-2530</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 250 mm	ea.
<b>BTW0JCO-1550</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 150 mm	ea.
<b>BTW0JCO-2550</b>	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 250 mm	ea.
<b>BTW0KCO-1505</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 150 mm	ea.
<b>BTW0KCO-2505</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 250 mm	ea.
<b>BTW0KCO-1520</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 150 mm	ea.
<b>BTW0KCO-2520</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 250 mm	ea.
<b>BTW0KCO-1530</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 150 mm	ea.
<b>BTW0KCO-2530</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 250 mm	ea.
<b>BTW0KCO-1550</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 150 mm	ea.
<b>BTW0KCO-2550</b>	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 250 mm	ea.
<b>BTW0ACO-1505</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 150 mm	ea.
<b>BTW0ACO-2505</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 250 mm	ea.
<b>BTW0ACO-1520</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 150 mm	ea.
<b>BTW0ACO-2520</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 250 mm	ea.
<b>BTW0ACO-1530</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 150 mm	ea.
<b>BTW0ACO-2530</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 250 mm	ea.
<b>BTW0ACO-1550</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 150 mm	ea.
<b>BTW0ACO-2550</b>	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware  
see page 24–29



# BGB Taurus C4T Wide Pore

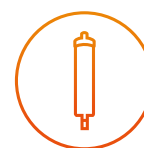




Phase:	Spherical Ultra-Pure Wide Pore C4 polymeric bonded			
Particle Size:	5 $\mu\text{m}$	10 $\mu\text{m}$	15 $\mu\text{m}$	30 $\mu\text{m}$
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g	90 m <sup>2</sup> /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	3 %	3 %	3 %	3 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7




## BGB Taurus C4T Flash Cartridges

Part No.	Description	Qty.
BTW1KF-W004	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 4.5 g	pk.2
BTW1KF-W012	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 16 g	ea.
BTW1KF-W025	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 26 g	ea.
BTW1KF-W040	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 38 g	ea.
BTW1KF-W080	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 82 g	ea.
BTW1KF-W120	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 120 g	ea.
BTW1KF-W220	 BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 225 g	ea.
BTW1KF-W330	 BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 15 $\mu\text{m}$ , 320 g	ea.



Part No.	Description	Qty.
BTW1AF-W004	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 4.5 g	pk.2
BTW1AF-W012	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 16 g	ea.
BTW1AF-W025	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 26 g	ea.
BTW1AF-W040	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 38 g	ea.
BTW1AF-W080	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 82 g	ea.
BTW1AF-W120	BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 120 g	ea.
BTW1AF-W220	 BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 225 g	ea.
BTW1AF-W330	 BGB Taurus Flash Cartridge, C4T 300 Å, Spherical 30 $\mu\text{m}$ , 320 g	ea.



 ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

## BGB Taurus C4T Bulk Material

Part No.	Description	Qty.
<b>BTW1IB-K1</b>	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 100 g	ea.
<b>BTW1IB-K4</b>	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 1 kg	ea.
<b>BTW1JB-K1</b>	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 100 g	ea.
<b>BTW1JB-K4</b>	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 1 kg	ea.
<b>BTW1KB-K1</b>	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 100 g	ea.
<b>BTW1KB-K4</b>	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 1 kg	ea.
<b>BTW1AB-K1</b>	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 100 g	ea.
<b>BTW1AB-K4</b>	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 1 kg	ea.



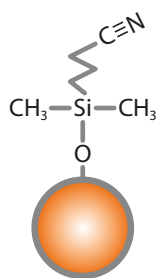
## BGB Taurus C4T HPLC Columns

Part No.	Description	Qty.
<b>BTW1ICO-1505</b>	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 150 mm	ea.
<b>BTW1ICO-2505</b>	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 250 mm	ea.
<b>BTW1ICO-1520</b>	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 150 mm	ea.
<b>BTW1ICO-2520</b>	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 250 mm	ea.
<b>BTW1JCO-1505</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 150 mm	ea.
<b>BTW1JCO-2505</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 250 mm	ea.
<b>BTW1JCO-1520</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 150 mm	ea.
<b>BTW1JCO-2520</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 250 mm	ea.
<b>BTW1JCO-1530</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 150 mm	ea.
<b>BTW1JCO-2530</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 250 mm	ea.
<b>BTW1JCO-1550</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 150 mm	ea.
<b>BTW1JCO-2550</b>	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 250 mm	ea.
<b>BTW1KCO-1505</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 150 mm	ea.
<b>BTW1KCO-2505</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 250 mm	ea.
<b>BTW1KCO-1520</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 150 mm	ea.
<b>BTW1KCO-2520</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 250 mm	ea.
<b>BTW1KCO-1530</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 150 mm	ea.
<b>BTW1KCO-2530</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 250 mm	ea.
<b>BTW1KCO-1550</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 150 mm	ea.
<b>BTW1KCO-2550</b>	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 250 mm	ea.
<b>BTW1ACO-1505</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 150 mm	ea.
<b>BTW1ACO-2505</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 250 mm	ea.
<b>BTW1ACO-1520</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 150 mm	ea.
<b>BTW1ACO-2520</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 250 mm	ea.
<b>BTW1ACO-1530</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 150 mm	ea.
<b>BTW1ACO-2530</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 250 mm	ea.
<b>BTW1ACO-1550</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 150 mm	ea.
<b>BTW1ACO-2550</b>	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 250 mm	ea.



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## BGB Scorpius Cyano and Diol

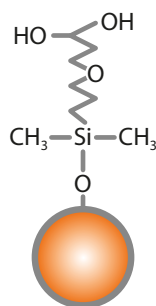
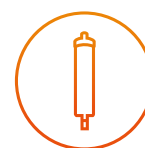


<b>Phase:</b>	Spherical Ultra-Pure Cyano (CN) bonded
<b>Particle Size:</b>	30 μm
<b>Pore Size:</b>	100 Å
<b>Surface Area:</b>	320 m <sup>2</sup> /g
<b>Endcapped:</b>	yes
<b>Carbon Load:</b>	5.5 %
<b>pH Range:</b>	2–8



### BGB Scorpius Cyano (CN) Flash Cartridges

Part No.	Description	Qty.
<b>BSCNAF-W004</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 5.4 g	pk.2
<b>BSCNAF-W012</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 20 g	ea.
<b>BSCNAF-W025</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 33 g	ea.
<b>BSCNAF-W040</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 48 g	ea.
<b>BSCNAF-W080</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 105 g	ea.
<b>BSCNAF-W120</b>	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 155 g	ea.
<b>BSCNAF-W220</b> ⚠	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 300 g	ea.
<b>BSCNAF-W330</b> ⚠	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 420 g	ea.

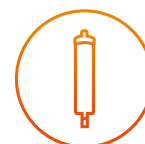


<b>Phase:</b>	Spherical Ultra-Pure Diol bonded
<b>Particle Size:</b>	30 μm
<b>Pore Size:</b>	100 Å
<b>Surface Area:</b>	320 m <sup>2</sup> /g
<b>Endcapped:</b>	yes
<b>Carbon Load:</b>	5 %
<b>pH Range:</b>	2–8



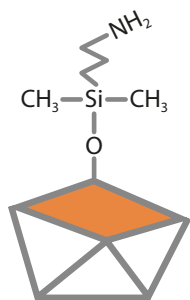
### BGB Scorpius Diol (OH) Flash Cartridges

Part No.	Description	Qty.
<b>BSOHAF-W004</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 5.4 g	pk.2
<b>BSOHAF-W012</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 20 g	ea.
<b>BSOHAF-W025</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 33 g	ea.
<b>BSOHAF-W040</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 48 g	ea.
<b>BSOHAF-W080</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 105 g	ea.
<b>BSOHAF-W120</b>	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 155 g	ea.
<b>BSOHAF-W220</b> ⚠	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 300 g	ea.
<b>BSOHAF-W330</b> ⚠	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 420 g	ea.



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

# BGB Scorpius Amino



<b>Phase:</b>	Irregular Ultra-Pure Amino bonded
<b>Particle Size:</b>	50 μm
<b>Pore Size:</b>	60 Å
<b>Surface Area:</b>	500 m <sup>2</sup> /g
<b>Endcapped:</b>	yes
<b>Carbon Load:</b>	5 %
<b>pH Range:</b>	2–8



## BGB Scorpius Amino (NH<sub>2</sub>) Flash Cartridges

Part No.	Description	Qty.
<b>BSNHAF-W004</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 5.9 g	pk.2
<b>BSNHAF-W012</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 23 g	ea.
<b>BSNHAF-W025</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 38 g	ea.
<b>BSNHAF-W040</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 55 g	ea.
<b>BSNHAF-W080</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 122 g	ea.
<b>BSNHAF-W120</b>	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 180 g	ea.
<b>BSNHAF-W220</b> ⚠	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 340 g	ea.
<b>BSNHAF-W330</b> ⚠	BGB Scorpius Flash Cartridge, Amino (NH <sub>2</sub> ) 60 Å, Irregular 50 μm (40–63 μm), 475 g	ea.

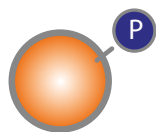


⚠ **ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware  
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# BGB Aquarius HILIC-D and HILIC-ARG

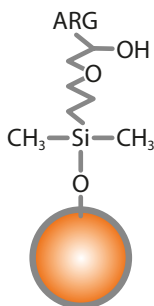


<b>Phase:</b>	Spherical Ultra-Pure proprietary bonded
<b>Particle Size:</b>	30 $\mu\text{m}$
<b>Pore Size:</b>	100 $\text{\AA}$
<b>Surface Area:</b>	320 $\text{m}^2/\text{g}$
<b>Endcapped:</b>	yes
<b>Carbon Load:</b>	5%
<b>pH Range:</b>	2–8



## BGB Aquarius HILIC-D Flash Cartridges

Part No.	Description	Qty.
<b>BAHDAF-W004</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 5.4 g	pk.2
<b>BAHDAF-W012</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 20 g	ea.
<b>BAHDAF-W025</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 33 g	ea.
<b>BAHDAF-W040</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 48 g	ea.
<b>BAHDAF-W080</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 105 g	ea.
<b>BAHDAF-W120</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 155 g	ea.
<b>BAHDAF-W220</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 300 g	ea.
<b>BAHDAF-W330</b>	BGB Aquarius Flash Cartridge, HILIC-D 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 420 g	ea.



<b>Phase:</b>	Spherical Ultra-Pure Arginine Bonded Silica
<b>Particle Size:</b>	30 $\mu\text{m}$
<b>Pore Size:</b>	100 $\text{\AA}$
<b>Surface Area:</b>	320 $\text{m}^2/\text{g}$
<b>Endcapped:</b>	yes
<b>Carbon Load:</b>	8%
<b>pH Range:</b>	2–8



## BGB Aquarius HILIC-ARG Flash Cartridges

Part No.	Description	Qty.
<b>BAHAAF-W004</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 5.4g	pk.2
<b>BAHAAF-W012</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 20g	ea.
<b>BAHAAF-W025</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 33g	ea.
<b>BAHAAF-W040</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 48g	ea.
<b>BAHAAF-W080</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 105g	ea.
<b>BAHAAF-W120</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 155g	ea.
<b>BAHAAF-W220</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 300g	ea.
<b>BAHAAF-W330</b>	BGB Aquarius Flash Cartridge, HILIC-ARG 100 $\text{\AA}$ , Spherical 30 $\mu\text{m}$ , 420g	ea.

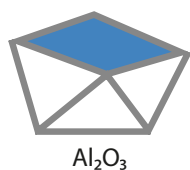


**ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware  
see page 24–29

# BGB Scorpius Alumina Acidic, Basic and Neutral



<b>Phase:</b>	Irregular Ultra-Pure Alumina
<b>Particle Size:</b>	60 μm
<b>Pore Size:</b>	55 Å
<b>Surface Area:</b>	155 m <sup>2</sup> /g
<b>Endcapped:</b>	n.a.
<b>Carbon Load:</b>	n.a.



## BGB Scorpius Alumina Acidic Flash Cartridges

Part No.	Description	Qty.
<b>BSAADF-W004</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
<b>BSAADF-W012</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
<b>BSAADF-W025</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
<b>BSAADF-W040</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
<b>BSAADF-W080</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
<b>BSAADF-W120</b>	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
<b>BSAADF-W220</b> ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
<b>BSAADF-W330</b> ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
<b>BSAADF-S0800</b> ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
<b>BSAADF-S1600</b> ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
<b>BSAADF-S3000</b> ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



## BGB Scorpius Alumina Basic Flash Cartridges

Part No.	Description	Qty.
<b>BSABDF-W004</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
<b>BSABDF-W012</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
<b>BSABDF-W025</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
<b>BSABDF-W040</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
<b>BSABDF-W080</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
<b>BSABDF-W120</b>	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
<b>BSABDF-W220</b> ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
<b>BSABDF-W330</b> ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
<b>BSABDF-S0800</b> ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
<b>BSABDF-S1600</b> ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
<b>BSABDF-S3000</b> ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



## BGB Scorpius Alumina Neutral Flash Cartridges

Part No.	Description	Qty.
<b>BSANDF-W004</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
<b>BSANDF-W012</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
<b>BSANDF-W025</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
<b>BSANDF-W040</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
<b>BSANDF-W080</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
<b>BSANDF-W120</b>	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
<b>BSANDF-W220</b> ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
<b>BSANDF-W330</b> ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
<b>BSANDF-S0800</b> ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
<b>BSANDF-S1600</b> ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
<b>BSANDF-S3000</b> ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



⚠ **ATTENTION:** It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

## BGB EZPack empty Flash Cartridges

BGB EZPack empty Flash Cartridges offer users convenience for self column packing but are also suitable for solid injection. In case of miscibility problems of compounds, this technic, also called dry load, is commonly used by chemists.

As for the complete range of BGB Flash Cartridges, BGB EZPack empty Flash Cartridges are done with an extra wall thickness. Reinforced body allows to work safely at higher pressure and ensure that the column is able to withstand the pressure capability of modern flash systems.

### Features

- Body in pharmaceutical-grade polypropylene
- Reinforced cartridge, pressure up to 13.8bar (200 psi)
- Luer/Luer Lock connectors are compatible with most flash chromatography systems
- Flexible sample loading
- 0 to 40°C



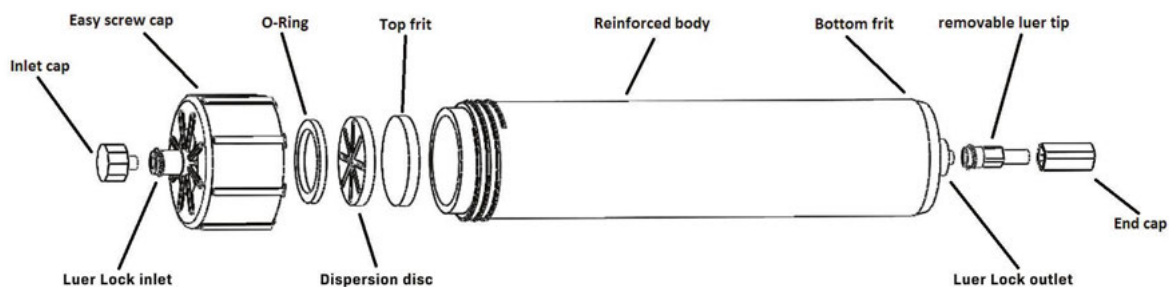
### Hardware Parameters

Hardware	Inner Diameter**	Bed Length	Max. Pressure	Top Frit*	Bottom Frit*
S0004	12.8 mm	60 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0012	21.4 mm	76 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0025	21.6 mm	126 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0040	26.8 mm	125 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0060	36.6 mm	99 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0080	31.2 mm	193 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0102	60.4 mm	61 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0120	36.6 mm	204 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0220	60.6 mm	131 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0330	60.6 mm	187 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm

\* All frits are made of polyethylene (PE).

\*\* Note that cartridges are slightly conical and that the given ID is an average value.





### BGB EZPack empty Flash Cartridges

Part No.	Description	Qty.
<b>BDL000F-S0004</b>	BGB EZPak empty cartridges with O-ring and frits, 4 g	pk.20
<b>BDL000F-S0012</b>	BGB EZPak empty cartridges with O-ring and frits, 12 g	pk.18
<b>BDL000F-S0025</b>	BGB EZPak empty cartridges with O-ring and frits, 25 g	pk.12
<b>BDL000F-S0040</b>	BGB EZPak empty cartridges with O-ring and frits, 40 g	pk.12
<b>BDL000F-S0060</b>	BGB EZPak empty cartridges with O-ring and frits, 60 g	pk.12
<b>BDL000F-S0080</b>	BGB EZPak empty cartridges with O-ring and frits, 80 g	pk.10
<b>BDL000F-S0102</b>	BGB EZPak empty cartridges with O-ring and frits, 100 g	pk.6
<b>BDL000F-S0120</b>	BGB EZPak empty cartridges with O-ring and frits, 120 g	pk.10
<b>BDL000F-S0220</b>	BGB EZPak empty cartridges with O-ring and frits, 220 g	pk.6
<b>BDL000F-S0330</b>	BGB EZPak empty cartridges with O-ring and frits, 330 g	pk.5



### BGB EZPack top and bottom Frits\*



Part No.	Description	Qty.
<b>BTFEZPPE-S0004</b>	BGB Top frits for 4 g EZPak empty cartridges	pk.100
<b>BTFEZPPE-S0012</b>	BGB Top frits for 12 g EZPak empty cartridges	pk.100
<b>BTFEZPPE-S0025</b>	BGB Top frits for 25 g EZPak empty cartridges	pk.100
<b>BTFEZPPE-S0040</b>	BGB Top frits for 40 g EZPak empty cartridges	pk.100
<b>BTFEZPPE-S0060</b>	BGB Top frits for 60 g EZPak empty cartridges	pk.30
<b>BTFEZPPE-S0080</b>	BGB Top frits for 80 g EZPak empty cartridges	pk.30
<b>BTFEZPPE-S0102</b>	BGB Top frits for 100 g EZPak empty cartridges	pk.30
<b>BTFEZPPE-S0120</b>	BGB Top frits for 120 g EZPak empty cartridges	pk.30
<b>BTFEZPPE-S0220</b>	BGB Top frits for 220 g EZPak empty cartridges	pk.30
<b>BTFEZPPE-S0330</b>	BGB Top frits for 330 g EZPak empty cartridges	pk.30

Part No.	Description	Qty.
<b>BBFEZPPE-S0004</b>	BGB Bottom frits for 4 g EZPak empty cartridges	pk.100
<b>BBFEZPPE-S0012</b>	BGB Bottom frits for 12 g EZPak empty cartridges	pk.100
<b>BBFEZPPE-S0025</b>	BGB Bottom frits for 25 g EZPak empty cartridges	pk.100
<b>BBFEZPPE-S0040</b>	BGB Bottom frits for 40 g EZPak empty cartridges	pk.100
<b>BBFEZPPE-S0060</b>	BGB Bottom frits for 60 g EZPak empty cartridges	pk.30
<b>BBFEZPPE-S0080</b>	BGB Bottom frits for 80 g EZPak empty cartridges	pk.30
<b>BBFEZPPE-S0100</b>	BGB Bottom frits for 100 g EZPak empty cartridges	pk.30
<b>BBFEZPPE-S0120</b>	BGB Bottom frits for 120 g EZPak empty cartridges	pk.30
<b>BBFEZPPE-S0220</b>	BGB Bottom frits for 220 g EZPak empty cartridges	pk.30
<b>BBFEZPPE-S0330</b>	BGB Bottom frits for 330 g EZPak empty cartridges	pk.30

\* All frits are made of polyethylene (PE).

## O-Rings and Insertion Tools

BGB EZPack O-Rings, Silicone & FEP



Part No.	Description	Qty.
<b>BOREZPSI-S0004</b>	BGB O-Ring for 4 g EZPak empty cartridges, silicone	pk.100
<b>BOREZPSI-S0012</b>	BGB O-Ring for 12 g EZPak empty cartridges, silicone	pk.100
<b>BOREZPSI-S0025</b>	BGB O-Ring for 25 g EZPak empty cartridges, silicone	pk.100
<b>BOREZPSI-S0040</b>	BGB O-Ring for 40 g EZPak empty cartridges, silicone	pk.100
<b>BOREZPSI-S0060</b>	BGB O-Ring for 60 g EZPak empty cartridges, silicone	pk.30
<b>BOREZPSI-S0080</b>	BGB O-Ring for 80 g EZPak empty cartridges, silicone	pk.30
<b>BOREZPSI-S0100</b>	BGB O-Ring for 100 g EZPak empty cartridges, silicone	pk.30
<b>BOREZPSI-S0120</b>	BGB O-Ring for 120 g EZPak empty cartridges, silicone	pk.30
<b>BOREZPSI-S0220</b>	BGB O-Ring for 220 g EZPak empty cartridges, silicone	pk.30
<b>BOREZPSI-S0330</b>	BGB O-Ring for 330 g EZPak empty cartridges, silicone	pk.30



Part No.	Description	Qty.
<b>BOREZPFEP-S0004</b>	BGB O-Ring for 4 g EZPak empty cartridges, FEP	pk.50
<b>BOREZPFEP-S0012</b>	BGB O-Ring for 12 g EZPak empty cartridges, FEP	pk.50
<b>BOREZPFEP-S0025</b>	BGB O-Ring for 25 g EZPak empty cartridges, FEP	pk.50
<b>BOREZPFEP-S0040</b>	BGB O-Ring for 40 g EZPak empty cartridges, FEP	pk.50
<b>BOREZPFEP-S0060</b>	BGB O-Ring for 60 g EZPak empty cartridges, FEP	pk.20
<b>BOREZPFEP-S0080</b>	BGB O-Ring for 80 g EZPak empty cartridges, FEP	pk.20
<b>BOREZPFEP-S0100</b>	BGB O-Ring for 100 g EZPak empty cartridges, FEP	pk.10
<b>BOREZPFEP-S0120</b>	BGB O-Ring for 120 g EZPak empty cartridges, FEP	pk.20
<b>BOREZPFEP-S0220</b>	BGB O-Ring for 220 g EZPak empty cartridges, FEP	pk.10
<b>BOREZPFEP-S0330</b>	BGB O-Ring for 330 g EZPak empty cartridges, FEP	pk.10

Frit Insertion Tools



Part No.	Description	Qty.
<b>BDL000TO-001</b>	Frit Insertion Tool for type S0004	ea.
<b>BDL000TO-002</b>	Frit Insertion Tool for type S0012, S0025 and S0040	ea.
<b>BDL000TO-003</b>	Frit Insertion Tool for type S0060, S0080 and S0120	ea.
<b>BDL000TO-004</b>	Frit Insertion Tool for type S0100, S0220 and S0330	ea.

## How to fill a BGB EZPack empty flash cartridge



Select the adapted size



Add the loaded silica



If needed, add additional silica, Celite or sand to reach the screw thread



Insert the top frit



Use the appropriate frit insertion tool to place the frit correctly



Add the o-ring



Screw cap until contact with the filter

NB: During packing, tap gently the cartridge to help silica to settle. When screwing the cap, do not screw too strongly. Just screw until contact with the frit. Start elution with 100 % non-eluting solvent, for 1 minute, to wet the dry loading without eluting the compounds.

## BGB EZPackXL empty Flash Cartridges

BGB EZPackXL empty flash cartridges offer an innovative column design convenient for manual assembly and to better meet the needs of chemists for large size solid loading samples. Several adaptors for different tubings with various outer diameters (1/4", 3/16" and 1/8") are available to connect the cartridges to the most common flash chromatography systems used on the market. The reusable part of BGB large size empty cartridges is mainly composed of the stainless-steel connection cap which can be used for a long time. The disposable parts mainly include the polypropylene column body, the frits and the sealing gaskets.

### Features

- Innovative column design for convenient manual assembly
- Available in 5 sizes of 800g, 1.6Kg, 3.0Kg, 5.0Kg and 7.0Kg
- Reinforced polypropylene cartridge body with a max pressure of 6.9 bar (100 psi)
- Various adaptors available for different OD tubings
- Compatible with any flash system

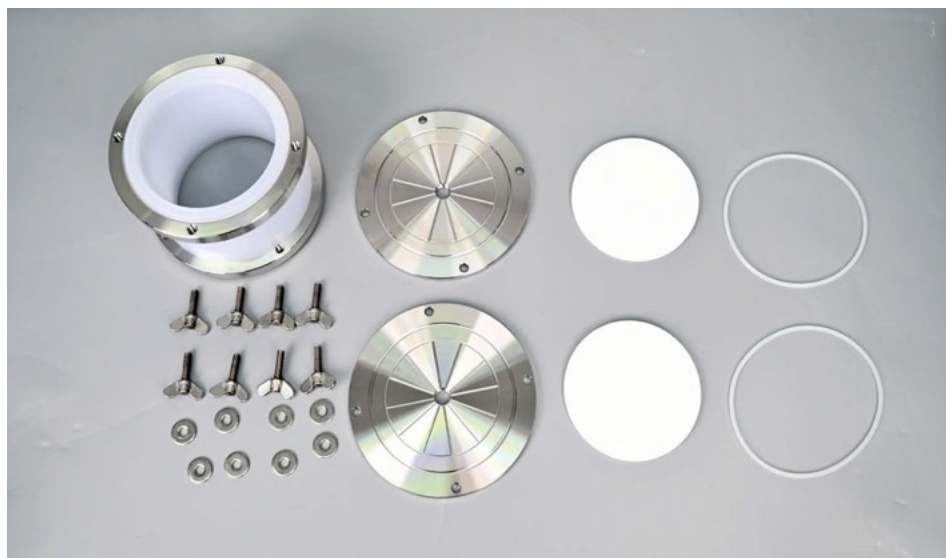


### Hardware Parameters

Hardware	Inner Diameter	Bed Length	Frit*
SK08	127 mm	140 mm	20–25 µm
SK16	127 mm	250 mm	20–25 µm
SK30	127 mm	440 mm	20–25 µm
SK50	127 mm	692 mm	20–25 µm
SK70	127 mm	1000 mm	20–25 µm

\* All frits are made of polyethylene (PE).

BGB EZPackXL empty flash cartridge version III is composed of 1 polypropylene plastic tube, 2 stainless steel caps, 8 stainless steel butterfly screws, 2 stainless steel retaining rings, 2 polyethylene frits and 2 O-Rings.



Part No.	Description	Qty.
<b>BDL000F-SK081B</b>	BGB EZPackXL Version 3 Empty Flash Cartridge, Closed Top, with Stainless Steel Connexion Kit, O-Rings & Frits, 800g	ea.
<b>BDL000F-SK161B</b>	BGB EZPackXL Version 3 Empty Flash Cartridge, Closed Top, with Stainless Steel Connexion Kit, O-Rings & Frits, 1.6kg	ea.
<b>BDL000F-SK301B</b>	BGB EZPackXL Version 3 Empty Flash Cartridge, Closed Top, with Stainless Steel Connexion Kit, O-Rings & Frits, 3.0kg	ea.
<b>BDL000F-SK501B</b>	BGB EZPackXL Version 3 Empty Flash Cartridge, Closed Top, with Stainless Steel Connexion Kit, O-Rings & Frits, 5.0kg	ea.
<b>BDL000F-SK701B</b>	BGB EZPackXL Version 3 Empty Flash Cartridge, Closed Top, with Stainless Steel Connexion Kit, O-Rings & Frits, 7.0kg	ea.

#### BGB EZPackXL Polypropylene Column Bodies

Part No.	Description	Qty.
<b>BEMPT-SK081B</b>	BGB Column Body, Polypropylene (PP), for EZPackXL Version 3 Empty Flash Cartridges, 800g	ea.
<b>BEMPT-SK161B</b>	BGB Column Body, Polypropylene (PP), for EZPackXL Version 3 Empty Flash Cartridges, 1.6kg	ea.
<b>BEMPT-SK301B</b>	BGB Column Body, Polypropylene (PP), for EZPackXL Version 3 Empty Flash Cartridges, 3.0kg	ea.
<b>BEMPT-SK501B</b>	BGB Column Body, Polypropylene (PP), for EZPackXL Version 3 Empty Flash Cartridges, 5.0kg	ea.
<b>BEMPT-SK701B</b>	BGB Column Body, Polypropylene (PP), for EZPackXL Version 3 Empty Flash Cartridges, 7.0kg	ea.

#### Other accessories

Part No.	Description	Qty.
<b>BUFEZPPE-SK0871</b>	BGB Universal Frit, Polyethylene (PE), for EZPackXL Version 3 Empty Flash Cartridges	ea.
<b>BOREZSI-SK0871</b>	BGB Sealing Ring, Silicone Rubber, for EZPackXL Version 3 Empty Flash Cartridges	ea.
<b>BCNXK-SK0871</b>	BGB Connexion kit, Stainless Steel (SS), for EZPackXL Version 3 Empty Flash Cartridges (incl. cap, hood and sealing ring)	ea.
<b>BDL000TO-007</b>	BGB Insertion Tool for EZPackXL empty flash cartridges	ea.
<b>BADPTPK18</b>	Adaptor 1/8" OD Tubing, PEEK, EZPackXL Empty Flash Cartridges, all size	pk.2
<b>BADPTPK316</b>	Adaptor 3/16" OD Tubing, PEEK, EZPackXL Empty Flash Cartridges, all size	pk.2
<b>BADPTPK14</b>	Adaptor 1/4" OD Tubing, PEEK, EZPackXL Empty Flash Cartridges, all size	pk.2

## BGB Tips & Tricks

### How to prepare a dry load

To prepare your dry load, dissolve first your sample in a very good solvent in a quantity of 10 ml of solvent by g of compound. Add then a quantity of silica in a ratio of 2 g of silica by g of product. Mix and evaporate the solvent with a rotatory evaporator. The loaded silica must not be sticky.

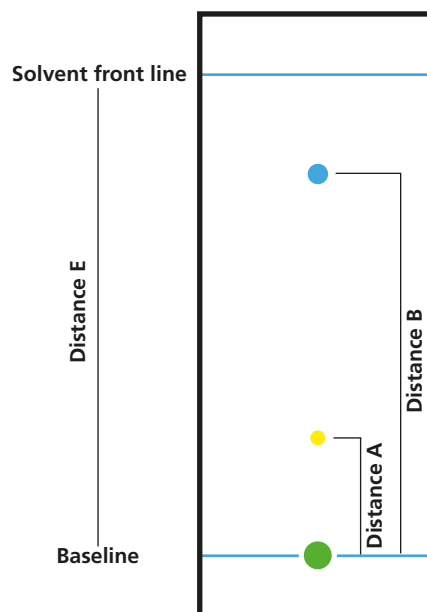
### How to calculate the retention factor Rf from a TLC plate:

The retention factor Rf can be easily calculated directly from a TLC plate. After the separation is completed, individual compounds appear as spots separated vertically. Each spot A and B has a retention factor ( $R_{f_A}$  and  $R_{f_B}$ ) which is equal to the distance migrated (Distance A and Distance B) over the total distance covered by the eluent (Distance E).

The formula is :  $R_f = \text{distance traveled by sample} / \text{distance traveled by eluent}$

$$R_{f_A} = \text{Distance A} / \text{Distance E}$$

$$R_{f_B} = \text{Distance B} / \text{Distance E}$$



### How to determine solvent composition in normal phase

In TLC (Thin Layer Chromatography), elution conditions are chosen to obtain a retention factor (Rf) of the products between  $R_f = 0.1$  and  $0.8$  with ideally a  $R_f$  of  $0.15-0.2$  for the product of interest. In flash chromatography, we can consider a good elution is obtained when the product of interest elutes with 7 to 10 column volumes. Note also, that in flash chromatography, we will always use fewer eluting conditions than the ones determined in TLC in order to better use the properties of the solvents and the silica. It is important to know that the separation on the flash cartridge will be better than those in TLC because of the bed length and so, the efficiency of the cartridge compare to a TLC plate. With this in mind, we can propose the following formula in a first approximation to determine the conditions to apply in flash chromatography.

%TLC =	% of the polar solvent used in TLC
Rf =	Retention factor of the product of interest in TLC
%Flash =	% of the polar solvent to be used in flash chromatography
CV =	column volume in ml
F =	flow rate in ml/min

#### Isocratic Mode

$$\%Flash = \%TLC / (8 \times R_f)$$

Example:

If your product in TLC is eluting with a  $R_f = 0.2$  with 20% of polar solvent, the % of polar solvent to use in flash chromatography is:  $\%Flash = 20 / (8 \times 0.2) = 12.5\%$ . So, the use of 12–13% of polar solvent should result in a good separation in flash.

#### Gradient Mode

In a first time you can use the bi-exponential gradient below:

$t = 0$	$\%Flash = 0$
$t = 5CV/F$	$\%Flash = 0.2 \times \%TLC / R_f$
$t = 20CV/F$	$\%Flash = 100$

Note : With methanol as eluent, the product might elute quite faster than expected on the TLC plate. It is recommended to divide by half the % of methanol after to have apply formula described above.


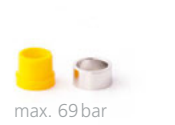

## Related Products

### Adapters

					
Material	PEEK	PEEK	PEEK	PEEK	PP
Thread	1/4\"-28 female to Luer Lock female	1/4\"-28 female to Luer Lock male	1/4\"-28 male to Luer female	1/4\"-28 male to Luer Lock male	Luer Lock female to Luer Lock female
Miscellaneous	Bore 1.3 mm	Bore 1.3 mm	Bore 1.5 mm	Bore 1.0 mm	Bore 0.4 mm
<b>Part No.</b>	<b>220302</b>	<b>220304</b>	<b>220305</b>	<b>220308</b>	<b>220329</b>
Qty.	ea.	ea.	ea.	ea.	pk. 10

More luer adapters at [www.bgb-shop.com/luer-adapters](http://www.bgb-shop.com/luer-adapters)

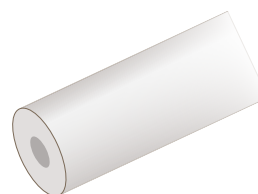
### Nuts, Ferrules, Plugs and Caps

					
Type	Nut	Nut	Ferrule	Plug	Cap
Material	PEEK	PEEK	ETFE with SS Ring	POM	ETFE
Thread	1/4\"-28	1/4\"-28	-	1/4\"-28	1/4\"-28
Miscellaneous	Fingertight, Short	Fingertight, Long	8\" OD Tubing	-	-
<b>Part No.</b>	<b>220344</b>	<b>220345</b>	<b>220353</b>	<b>220334</b>	<b>220341</b>
Qty.	pk. 10	pk. 10	pk. 10	pk. 10	pk. 10

More fittings at [www.bgb-shop.com/fittings](http://www.bgb-shop.com/fittings)





### ETFE Tubing

Part No.	OD	ID	Color	Pressure	Qty.
<b>211906-3</b>	1/8"	1.59mm	natural	110bar	3m
<b>211906-10</b>	1/8"	1.59mm	natural	110bar	10m
<b>211906-25</b>	1/8"	1.59mm	natural	110bar	25m



More polymeric Tubings at [www.bgb-shop.com/polymeric-tubing](http://www.bgb-shop.com/polymeric-tubing)

### HPLC-Certified Plastic Disposable Syringes

				
Volume	2 ml	5 ml	10 ml	20 ml
Connector	Luer Tip	Luer Tip	Luer Tip	Luer Tip
<b>Part No.</b>	<b>PP-EWS-2L</b>	<b>PP-EWS-5L</b>	<b>PP-EWS-10L</b>	<b>PP-EWS-20L</b>

Also available as Luer Lock Syringes [www.bgb-shop.com/disposable-syringes](http://www.bgb-shop.com/disposable-syringes)

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