

GraceResolve™

HIGH RESOLUTION FLASH CARTRIDGES

"Separate from the Pack"



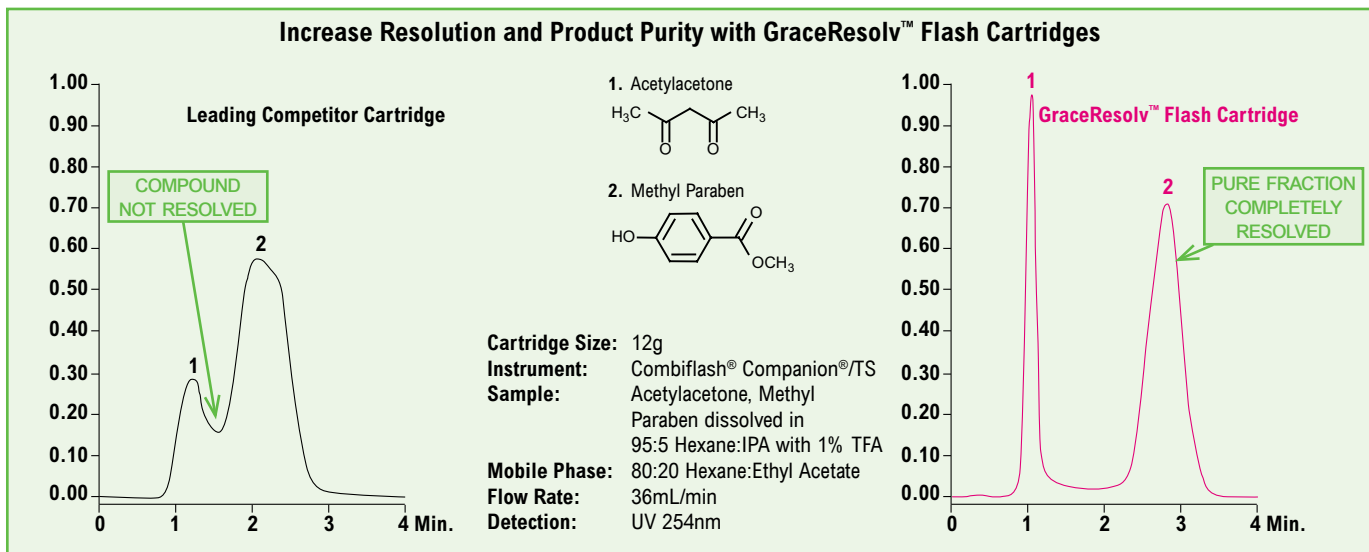
GRACE

- Higher Resolution
- Increased Loading Capacity
- Reproducible Performance
- Universal Luer Fittings

Superior Silica



Grace's 30 years of chromatography experience combined with 80 years of silica manufacturing expertise has yielded the ideal flash cartridge, GraceResolv™. GraceResolv™ cartridges are packed with a new grade of Davisil® silica designed to maximize performance of today's flash instruments.



What Gives GraceResolv™ Cartridges Their Outstanding Performance?

1. Small Particle Size

A smaller particle size increases resolution. Tighter particle size distribution and minimal fines keep backpressure low. See **Figure 1**.

2. High Purity Silica

Grace's flash silica undergoes a proprietary process to reduce metals from the silica surface by over 50%. Metals cause peak tailing and reduce resolution especially for metal chelator compounds.

Percentage of Metal Content				
Silica	Fe ₂ O ₃	Na ₂ O	Al ₂ O ₃	SO ₄
GraceResolv™	0.001	0.01	0.02	0.001
Competitive Standard	0.005	0.07	0.05	0.01

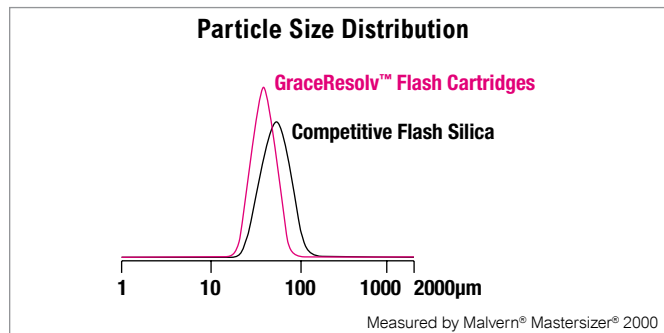


Figure 1

3. Efficient Column Packing

A tightly packed silica bed increases cartridge efficiency and prevents voids and channeling that cause poor resolution. Flash chromatography, like HPLC, benefits greatly from optimized packing procedures. See **Figure 2**.

4. Strict Quality Control

GraceResolv™ cartridges are characterized with over 15 tests, from the silica to the packed cartridge, to ensure unvarying lot-to-lot performance. A quality assurance certificate is provided with each box of cartridges.

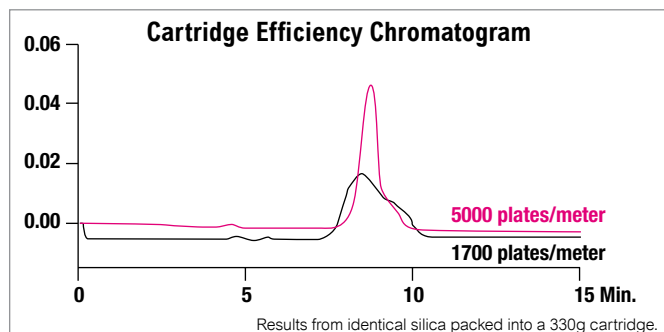


Figure 2

GraceResolv™ Silica Cartridges – Luer Endfittings

Directly Connect to Isco® Systems



GraceResolv™ Cartridges – Luer Endfittings



Luer Lock Solid Loader



Luer Slip Solid Loader

Adaptors to Connect to Biotage® Systems



Support Rings



Adaptors



Adjustable Plunger

Support Rings

Description	Part No.
Pack contains adaptors for five sizes (4g, 12g, 40g, 80g, 120g)	8618945

Adaptors

Description	Part No.
Male and female luer solvent line connectors	8618940

Adjustable Plunger

Description	Part No.
5g (12mL cartridge)	8619011
25g (60mL cartridge)	8619010

GraceResolv™ Cartridges – Luer Endfittings

Cartridge Size	Qty.	Part No.
GraceResolv™ 4g	20/pk	8618502
GraceResolv™ 12g	20/pk	8618522
GraceResolv™ 40g	15/pk	8618521
GraceResolv™ 80g	12/pk	8618520
GraceResolv™ 120g	10/pk	8618509
GraceResolv™ 330g	4/pk	8618523

Solid Loaders

Description	Qty.	Empty* Part No.	Qty.	Silica Filled Part No.
<i>Luer Slip Solid Loader – Isco® Compatible</i>				
5g (12mL cartridge)	100/pk	5142050	20/pk	5142035
25g (60mL cartridge)	100/pk	5142051	16/pk	5142034
<i>Luer Lock Solid Loader – Biotage® Compatible</i>				
5g (12mL cartridge)	100/pk	8618941	20/pk	8618942
25g (60mL cartridge)	100/pk	8618943	16/pk	8618944

*Empty solid loaders come with two 20µm frits

tech tip

To connect a GraceResolv™ cartridge to a Biotage® instrument, simply connect the adaptors to the inlet and outlet side of the cartridge and attach to the instrument's tubing. The cartridge then fits on the Biotage® instrument with the appropriate support ring.

If needed, a luer lock solid loader can also be used with the adjustable plunger.



GraceResolv™ Silica Cartridges – SPE Style

Directly Connect to FlashMaster™ Systems



GraceResolv™ Cartridges – SPE Style

GraceResolv™ Cartridges – SPE Style

Cartridge Size	Qty.	Part No.
GraceResolv™ 5g/25mL	20/pk	8618508
GraceResolv™ 10g/70mL	16/pk	8618507
GraceResolv™ 25g/150mL	10/pk	8618506
GraceResolv™ 50g/150mL	10/pk	8618505
GraceResolv™ 70g/150mL	10/pk	8618504
GraceResolv™ 100g/276mL	12/pk	8618503

GraceResolv™ Silica TLC Plates and Tanks

- TLC plates use the same silica as the GraceResolv™ cartridges for direct method development
- Plates are pre-scored in 5x20cm sections for easy size customization

GraceResolv™ Silica TLC Plates			
Description	Thickness	Qty.	Part No.
<i>Hard Layer, Organic Binder, Fluorescent Indicator, 254nm</i>			
20x20cm (Scored into four 5x20cm sections)	250µm	25	8618900

Rectangular TLC Tanks with Glass Lid	
Description	Part No.
Standard Tank for 20x20cm Plates, (27x24x7cm), (10.5x10x3")	2108359



TLC Plates



Rectangular TLC Tank

more info

Additional TLC accessories and Davisil® silica grades are available from Grace. Please request the Grace® chromatography catalog or visit www.discoverysciences.com for more information.

Davisil® Bulk Silica

Standard flash grade silica is available for solid loading, scale-up to large-scale process applications, and self-packing of flash cartridges.



Davisil® Bulk Silica				
APS	Particle Size	Davisil® Grade	Qty.	Part No.
60Å	40–63µm	LC60Å 40–63µm	25 kg	5054993
			5 kg	5098468
			1 kg	5134312
	60–200µm	LC60Å 60–200µm	25 kg	5007446
			5 kg	5134295
			1 kg	5134311
150Å	35–70µm	LC150Å 35–70µm	25 kg	5057993
			5 kg	5134294
			1 kg	5134299
	60–200µm	LC150Å 60–200µm	25kg	5134770
			5 kg	5134293
			1 kg	5134298

Davisil® Bulk Bonded Silica					
APS	Bonded Phase	Particle Size	Davisil® Grade	Qty.	Part No.
60Å	C18	35–60µm	633NC18E	250g	5135414
				1kg	5134095
	Cyano	35–60µm	633NCNE	250g	5135415
				1kg	5134224
	Diol	35–60µm	633N2OH	250g	5135413
				1kg	5135302
	Amino	35–60µm	633NNH2	250g	5135416
				1kg	5134096

Ako nás možno kontaktovať:

AZ Chrom s.r.o.
 Robotnícka 10
 831 03 Bratislava
 Tel. 0907 244526
 Fax. 02 20715811
azetchrom@hplc.sk
www.azetchrom.sk