

Shaper — HPLC Columns

*im*Chem

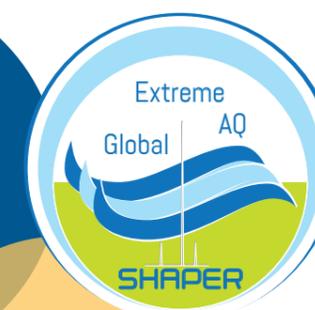
Shaper Columns

Choosing imChem

A complete range of high-quality columns for all chromatographic separations.

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QUALITY



MADE IN
FRANCE

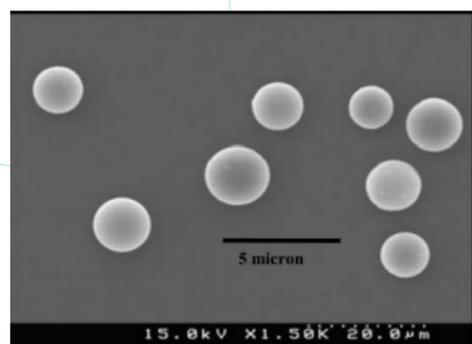
Shaper HPLC columns

Shaper SILICA

The performance of the Shaper columns comes firstly from the quality of the silica used.

Spherical particles

The natural silica of the Shaper columns is composed of homogeneously sized spherical particles.



Very low metal content

As shown in the table, the Shaper silica has a very low content in metal.

In the following pages, we have chosen to display our columns made from a 100A pore-sized silica, which is the ideal size for small molecules separation.

Our range also features other sizes of pores.

The specific surface of the Shaper silica is 310m²/g for 100A.

- High number of theoretical plates per meter.
- Controlled separation, fine peak tailings and optimised analysis duration.

Specific Surface	310 m ² /g
Pores volume	0.8 ml/g
Na in ppm	less than 10
Ti in ppm	less than 10
Ca in ppm	less than 10
Mg in ppm	less than 10
Al in ppm	less than 10
Fe in ppm	less than 10
Zr in ppm	less than 10

The narrow distribution of particle size, combined with a specific surface and an optimal pore volume allows for robust particles with excellent retention characteristics.

Shaper HPLC columns

HIGH RESOLUTION

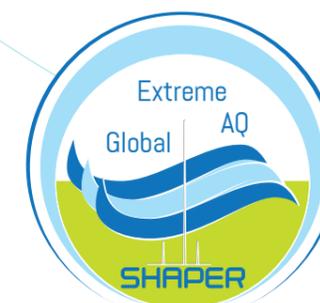
The ability to separate peaks is expressed in the resolution. While the mobile phase contributes to separation through retention and selectivity, the performance of the column through selectivity and the number of plates of the stationary phase should not be forgotten.

Concretely imChem has developed a specific stationary phase to solve chromatographic separations requiring more resolution.

This translates technically and commercially into 3 chemistries which occupy the field of action, to ensure an excellent separation quality in all hardware dimensions (diameter, length).

The common denominator is the quality of the Shaper ranges:

Long lifetime	Peak symmetry	Spherical particles	High purity	High specific surface	Acid-Basic Neutral
YES	YES	YES	YES	High	Compounds



Shaper HPLC columns

Shaper COLUMNS RANGE

Shaper Global columns

High performance spherical silica, high purity, and low metal content for challenging applications.

The narrow distribution of particle size, combined with a specific surface and an optimal pore volume allows for robust particles with excellent retention characteristics.

- Excellent peak shape.
- Partition of acid, basic and neutral compounds in a single analysis.
- Excellent column lifetime.

Normal endcapping for the Shaper range.

Shaper Extreme columns

Born from our last-generation bonding technology.

Controlled hydrophobia allowing the obtention of optimal retention times and a decrease in inclusion and «carry over» phenomena.

- Ideal for a mass spectrometry use, C18 trifunctional bonding.
- High robustness in extreme environments.
- Steric selectivity

High density endcapping for our Shaper Extreme range, allowing work on a large pH range, from 1 to 10.

Shaper AQ columns

Stable from 100% of organic phase to 100% of aqueous phase.

The Shaper AQ column possesses an extremely stable bonding phase which permits the use of a single column in diverse mobile phase conditions. You can easily work in highly organic or highly aqueous conditions.

- Available in a wide selection of column formats.
- Long column lifetime.
- Excellent retention of polar analytes with 100% aqueous mobile phases.
- High retention of hydrophobic analytes with 100% organic mobile phases.

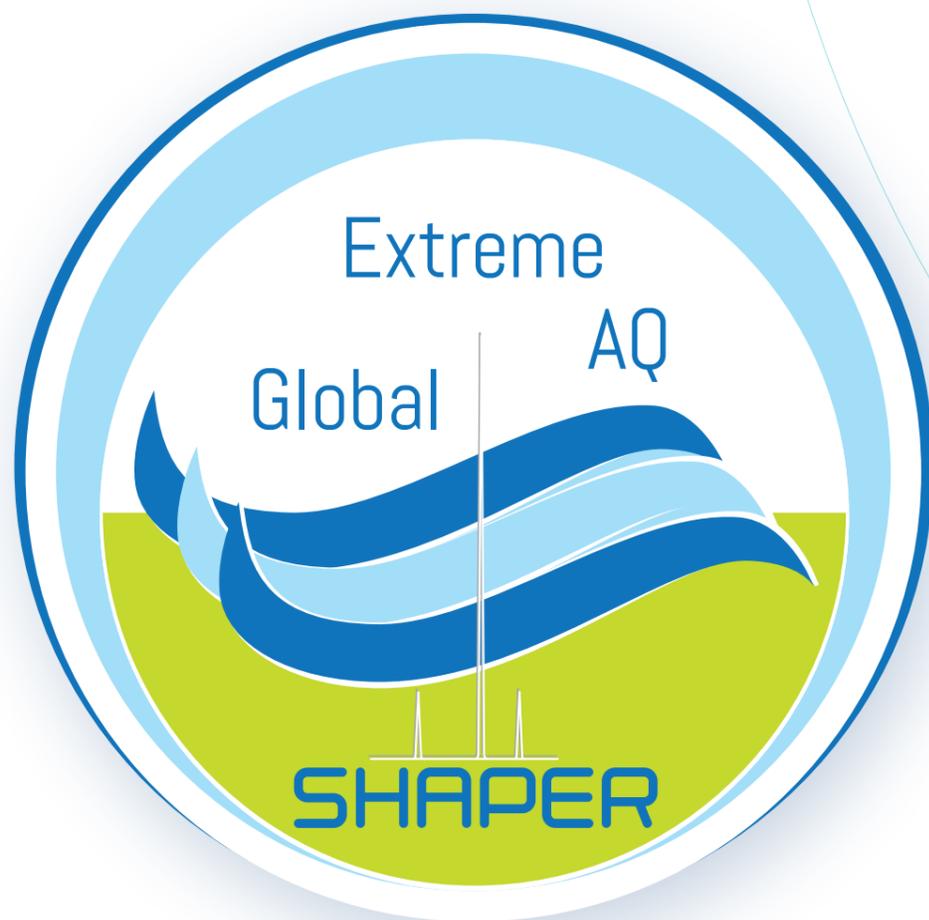
Shaper HPLC columns

Notes



Shaper HPLC columns

Shaper COLUMNS RANGE



Shaper HPLC columns

Shaper COLUMNS RANGE

Characteristics

Phase	Mono-Functional / Tri-Functional	End-capped
Shaper Global	M	YES
Shaper Extreme	T	HIGH DENSITY
Shaper AQ	M	YES

Phase	Hydrophobicity	Hydrophobic retention	Hydrophobic	Very Hydrophobic	Acids	Bases
Shaper Global	••	•••	••	•	••	••
Shaper Extreme	•••	•••	•	•	•••	•••
Shaper AQ	••	••	••	••	••	••

Because of their various selectivities, our Shaper ranges can be used to perform all of the challenges faced by a chromatographer:

You wish to	Opt for
Analyse acid, basic and neutral compounds in a single analysis.	Shaper Global
Use a mobile phase with wide pH range (1 to 10)	Shaper Extreme
Work from 100% aqueous phase to 100% organic phase	Shaper AQ
Analyse polar compounds in 100% aqueous phases	
Analyse hydrophobic compounds in 100% organic phases	

Shaper HPLC columns

HARDWARE

The surf range comes in the following dimensions :

Ø 4.6	Ø 4.0	Ø 3.0	Ø 2.1
250 x 4.6mm	250 x 4.0mm	-	-
200 x 4.6mm	-	-	-
150 x 4.6mm	150 x 4.0mm	150 x 3.0mm	-
125 x 4.6mm	125 x 4.0mm	125 x 3.0mm	-
100 x 4.6mm	-	100 x 3.0mm	100 x 2.1mm
50 x 4.6mm	50 x 4.0mm	-	50 x 2.1mm
33 x 4.6mm	-	-	-

These various column sizes allow you to find the best compromise between separation quality and analysis duration.



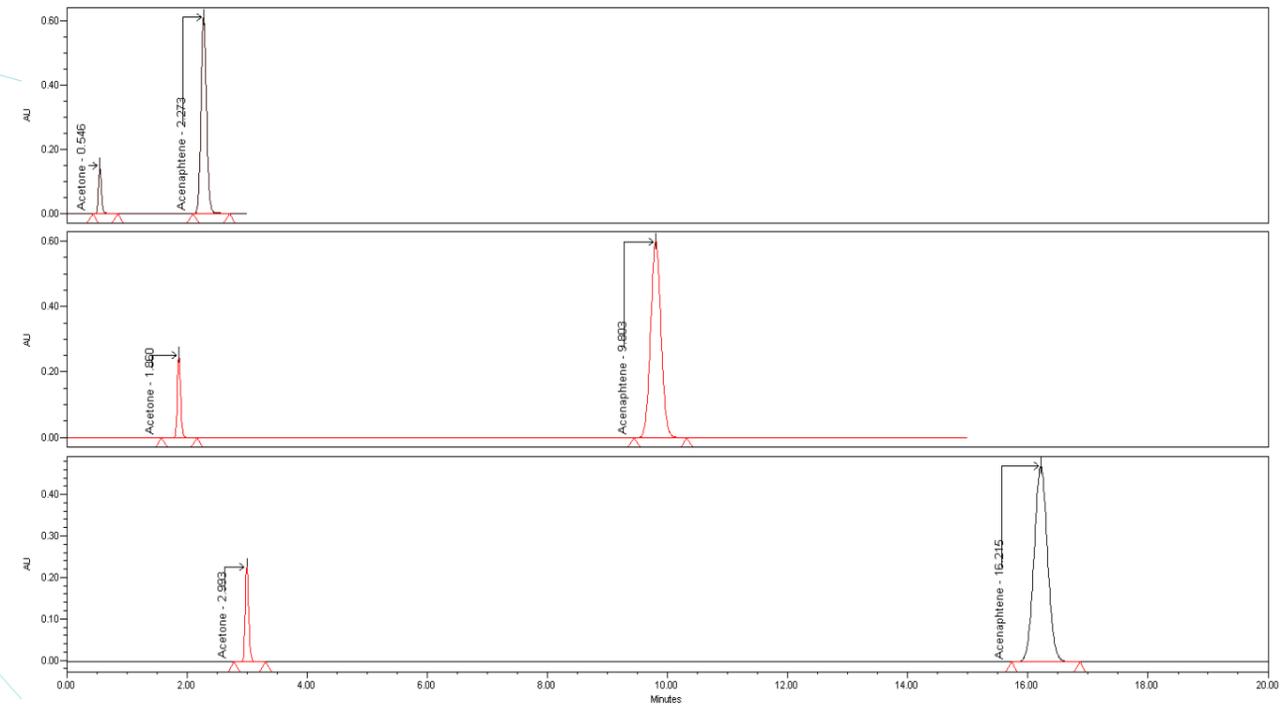
Shaper HPLC columns

HARDWARE

Comparison of the various lengths of Shaper C18 Extreme 5µm :

Ø 4.6x33mm. Ø 4.6x150mm et Ø 4.6x250mm.

(Same number of plate/meter for Acenaphthene)



Conditions d'analyse:

Mobile Phase : H₂O/ACN (30:70) - 1ml/min

Detector : UV 254nm

Shaper HPLC columns

ROBUSTNESS

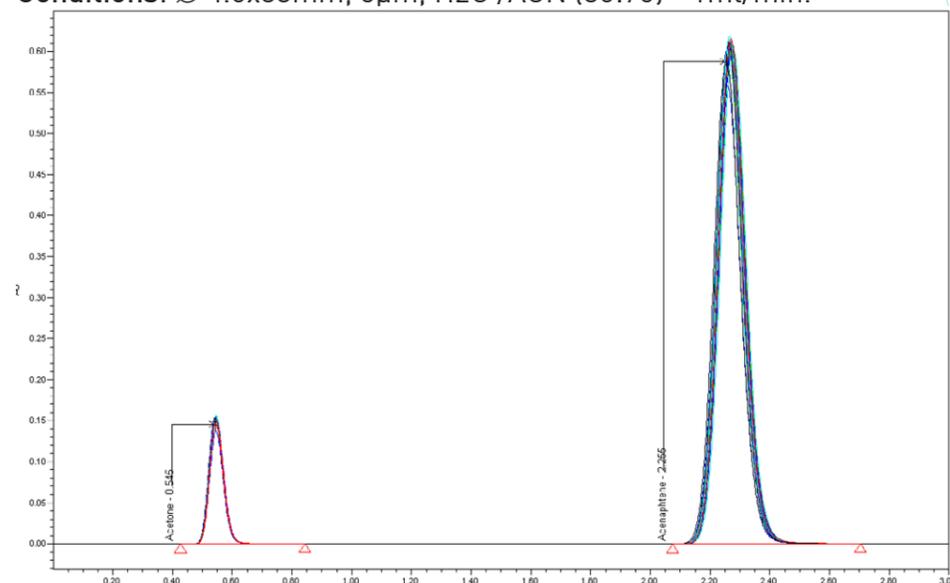
Shaper C18 Extreme 100A, 5µm

Réf: 3346-5-SH-C18EX

76 consecutive injections with testing mix.

(Same number of plate/meters for Acenaphtene)

Conditions: Ø 4.6x33mm, 5µm, H2O /ACN (30:70) - 1ml/min.



Acenaphtene compound						
# vial	Sample	Retention	Area	K Prime	Resolution	USP Tailing
1	Repet E 2C	2.277	3826119	3.55	13.72	1.09
2	Repet E 2C	2.271	3830313	3.54	13.66	1.09
3	Repet E 2C	2.272	3821799	3.54	13.66	1.1
4	Repet E 2C	2.271	3802531	3.54	13.66	1.1
5	Repet E 2C	2.269	3806885	3.54	13.59	1.1
⋮						
70	Repet E 2C	2.264	3873111	3.53	13.62	1.1
71	Repet E 2C	2.263	3848321	3.53	13.63	1.11
72	Repet E 2C	2.27	3902943	3.54	13.65	1.1
73	Repet E 2C	2.272	3871409	3.54	13.68	1.11
74	Repet E 2C	2.273	3885892	3.55	13.65	1.1
75	Repet E 2C	2.255	3748885	3.51	13.48	1.11
76	Repet E 2C	2.265	3915289	3.53	13.64	1.1
Mean		2.266	3828694.7	3.5	13.6	1.1
Std. Dev.		0.004	44789.9	0	0	0
% RSD		0.18	1.2	0.2	0.3	0.6

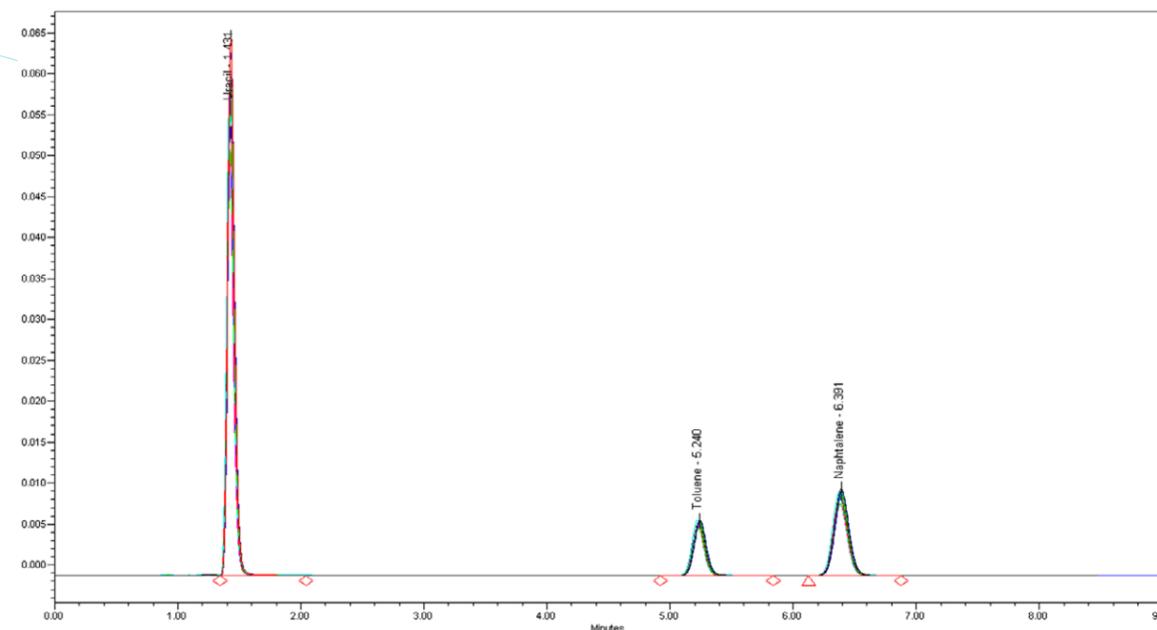
Shaper HPLC columns

PH

Shaper C18 Extreme 100 A 5µm. P/N : 15046-5-SH-C18EX

Superposition of ten pH 9 injections

Conditions: Ø 4.6x33mm 5µm - H₂O 10mM AmAc PH9 [NaOH] / ACN 30/70 - 1ml/min - 254mm.

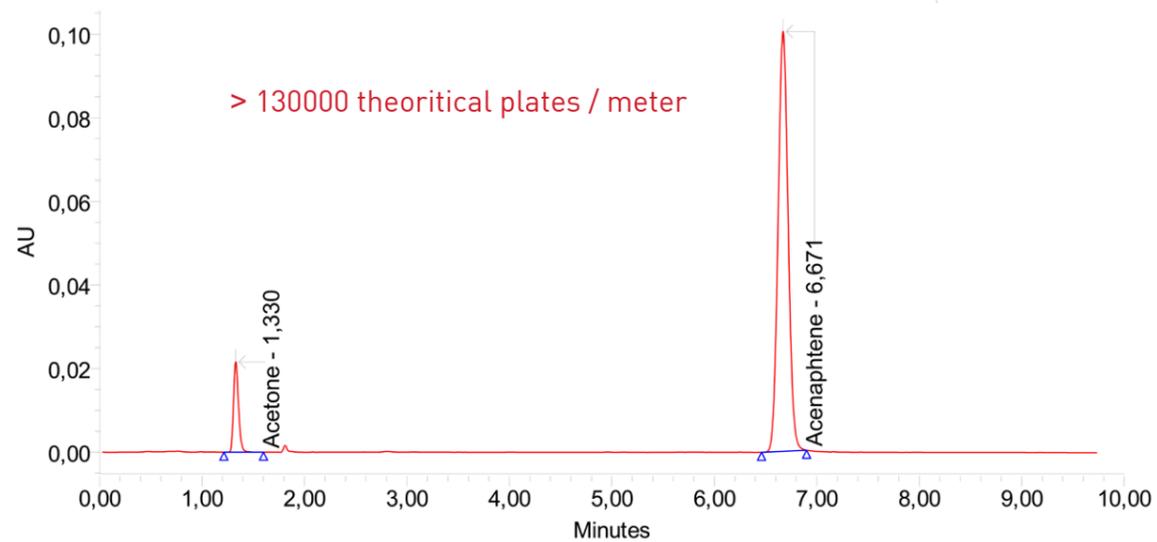


#	Sample	Vial	Inj	Name	Retention	Resolution	USP Plate Count	USP Tailing
					Time (min)			
1	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.391	5.9	14339.09	1.07
2	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.386	5.91	14247.19	1.06
3	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.375	5.92	14252.29	1.06
4	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.391	5.91	14370.25	1.06
5	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.381	5.9	14334.26	1.06
6	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.395	5.88	14386.84	1.07
7	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.393	5.89	14269.44	1.07
8	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.381	5.96	14436.09	1.05
9	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.384	5.93	14497.4	1.06
10	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.392	5.9	14240.95	1.07
11	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.391	5.87	14103.86	1.07
12	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.383	5.93	14427.93	1.06
13	E 3C 20 mM FoAc pH 9	10	1	Naphtalene	6.389	5.89	14331.66	1.07
Mean					6.387	5.9	14325.9	1.1
Std. Dev.					0.006	0	103.8	0
% RSD					0.09	0.4	0.7	0.5

Shaper HPLC columns

EFFICIENCY

Certificat of analyse for: 15046-3-SH-C18G,
Shaper C18 Global 100 A 3µm 150x4.6mm



Peak Name	RT	K Prime	USP Resolution	USP Plate count	USP Plate meter	USP Tailing
Acenaphthene	6.671	12.34	38.99	21964	146425	1,05

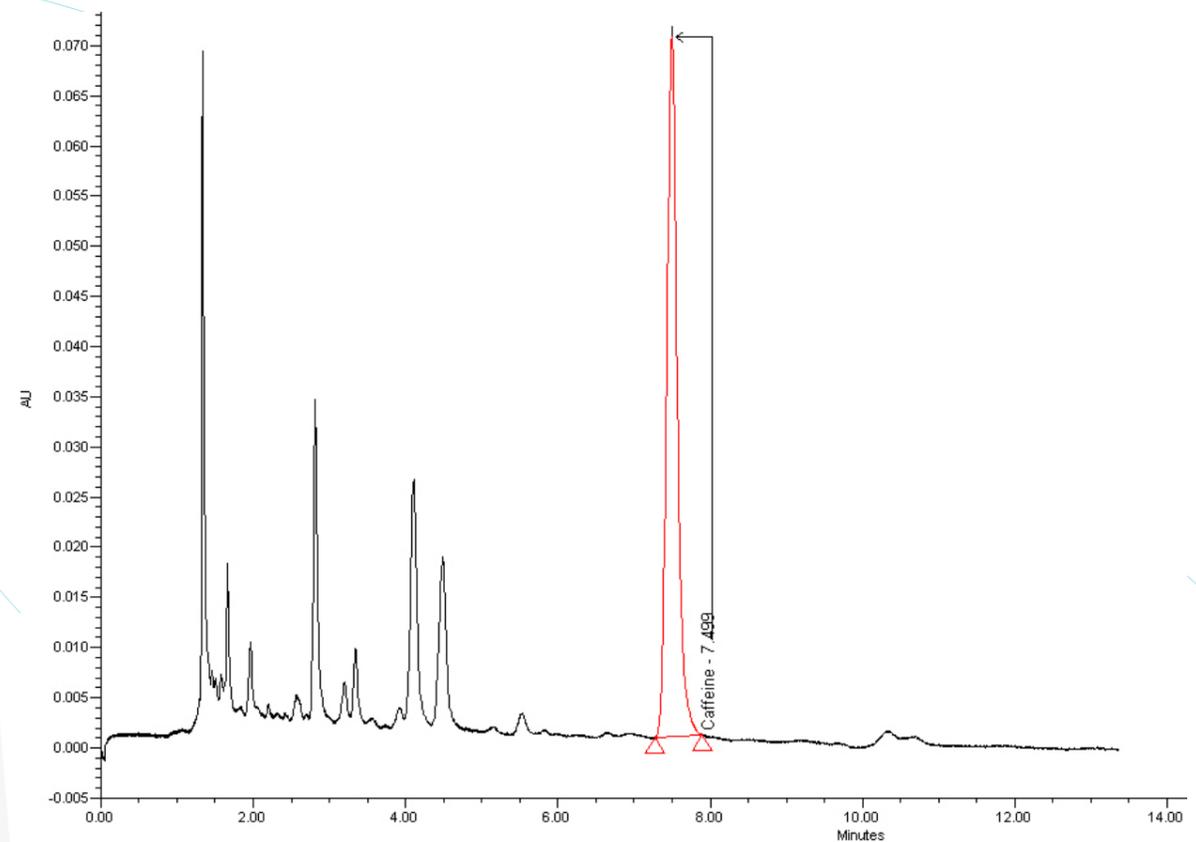
Shaper HPLC columns

APPLICATION NOTES

Certificat of analyse for: 15046-3-SH-C18G,
Shaper C18 Global 100 A 3µm 150x4.6mm

Cafein | Soluble coffee sample

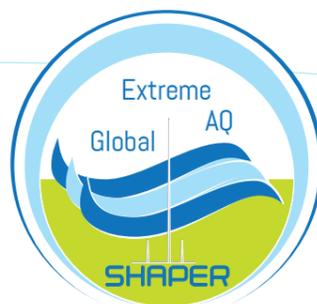
Conditions:
1.1 ml /min | 55 °C Lambda= 272 nm -
90 % : Water - 0.5 % FA 30 mM Formate Ammonium 10 % Acetonitril



Shaper HPLC columns

Shaper C18 Global

Shaper Global Columns



High performance spherical silica, high purity, and low metal content for challenging applications.

The narrow distribution of particle size, combined with a specific surface and an optimal pore volume allows for robust particles with excellent retention characteristics.

- Excellent peak shape.
- Partition of acid, basic and neutral compounds in a single analysis.
- Excellent column lifetime.

- traditional endcapping for Shaper Global range.

Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation
Shaper C18 Global 100A 5µm			
Ø4.6mm			
25046-5-SH-C18	Shaper C18 Global 100A 5µm 250x4.6mm	G1046-5-SHC18	Guard columns Shaper C18 Global 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C18	Shaper C18 Global 100A 5µm 200x4.6mm		
15046-5-SH-C18	Shaper C18 Global 100A 5µm 150x4.6mm		
12546-5-SH-C18	Shaper C18 Global 100A 5µm 125x4.6mm		
10046-5-SH-C18	Shaper C18 Global 100A 5µm 100x4.6mm		
7546-5-SH-C18	Shaper C18 Global 100A 5µm 75x4.6mm		
5046-5-SH-C18	Shaper C18 Global 100A 5µm 50x4.6mm		
3346-5-SH-C18	Shaper C18 Global 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C18	Shaper C18 Global 100A 5µm 250x4.0mm	G1040-5-SHC18	Guard columns Shaper C18 Global 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C18	Shaper C18 Global 100A 5µm 150x4.0mm		
12540-5-SH-C18	Shaper C18 Global 100A 5µm 125x4.0mm		
5040-5-SH-C18	Shaper C18 Global 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C18	Shaper C18 Global 100A 5µm 150x3.0mm	G1030-5-SHC18	Guard columns Shaper C18 Global 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C18	Shaper C18 Global 100A 5µm 125x3.0mm		
10030-5-SH-C18	Shaper C18 Global 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C18	Shaper C18 Global 100A 5µm 100x2.1mm	G1021-5-SHC18	Guard columns Shaper C18 Global 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C18	Shaper C18 Global 100A 5µm 50x2.1mm		

(1)

Shaper C18 Global 100A 3µm

Ø4.6mm			
15046-3-SH-C18	Shaper C18 Global 100A 3µm 150x4.6mm	G1046-3-SHC18	Guard columns Shaper C18 Global 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C18	Shaper C18 Global 100A 3µm 125x4.6mm		
10046-3-SH-C18	Shaper C18 Global 100A 3µm 100x4.6mm		
7546-3-SH-C18	Shaper C18 Global 100A 3µm 75x4.6mm		
5046-3-SH-C18	Shaper C18 Global 100A 3µm 50x4.6mm		
3346-3-SH-C18	Shaper C18 Global 100A 3µm 33x4.6mm		
Ø4.0mm			
15040-3-SH-C18	Shaper C18 Global 100A 3µm 150x4.0mm	G1040-3-SHC18	Guard columns Shaper C18 Global 100A 3µm 10x4.0mm 3/pk
12540-3-SH-C18	Shaper C18 Global 100A 3µm 125x4.0mm		
5040-3-SH-C18	Shaper C18 Global 100A 3µm 50x4.0mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

Shaper HPLC columns

Notes

Shaper C18 Global 100A 3µm

Ø3.0mm			
15030-3-SH-C18	Shaper C18 Global 100A 3µm 150x3.0mm	G1030-3-SHC18	Guard columns Shaper C18 Global 100A 3µm 10x3.0mm 3/pk
12530-3-SH-C18	Shaper C18 Global 100A 3µm 125x3.0mm		
10030-3-SH-C18	Shaper C18 Global 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C18	Shaper C18 Global 100A 3µm 100x2.1mm	G1021-3-SHC18	Guard columns Shaper C18 Global 100A 3µm 10x2.1mm 3/pk
5021-3-SH-C18	Shaper C18 Global 100A 3µm 50x2.1mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.



Shaper HPLC columns

Shaper C18 Extreme

Shaper Extreme Columns



Born from our last-generation bonding technology.

Controlled hydrophobia allowing the obtention of optimal retention times and a decrease in inclusion and «carry over» phenomena.

- Ideal for a mass spectrometry use, C18 trifunctional bonding.
- High robustness in extreme environments.
- Steric selectivity.
- High density endcapping for our **Shaper Extreme** range, allowing work on a large pH range, from 1 to 10.

Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation

(1)

Shaper C18 Extreme 100A 5µm

Ø4.6mm			
25046-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 250x4.6mm	G1046-5-SHC18EX	Guard columns Shaper C18 Extreme 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 200x4.6mm		
15046-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 150x4.6mm		
12546-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 125x4.6mm		
10046-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 100x4.6mm		
7546-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 75x4.6mm		
5046-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 50x4.6mm		
3346-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 250x4.0mm	G1040-5-SHC18EX	Guard columns Shaper C18 Extreme 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 150x4.0mm		
12540-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 125x4.0mm		
5040-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 150x3.0mm	G1030-5-SHC18EX	Guard columns Shaper C18 Extreme 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 125x3.0mm		
10030-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 100x2.1mm	G1021-5-SHC18EX	Guard columns Shaper C18 Extreme 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C18EX	Shaper C18 Extreme 100A 5µm 50x2.1mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

Shaper C18 Extreme 100A 3µm

Ø4.6mm			
15046-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 150x4.6mm	G1046-3-SHC18EX	Guard columns Shaper C18 Extreme 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 125x4.6mm		
10046-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 100x4.6mm		
7546-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 75x4.6mm		
5046-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 50x4.6mm		
3346-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 33x4.6mm		
Ø4.0mm			
15040-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 150x4.0mm	G1040-3-SHC18EX	Guard columns Shaper C18 Extreme 100A 3µm 10x4.0mm 3/pk
12540-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 125x4.0mm		
5040-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 50x4.0mm		
Ø3.0mm			
15030-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 150x3.0mm	G1030-3-SHC18EX	Guard columns Shaper C18 Extreme 100A 3µm 10x3.0mm 3/pk
12530-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 125x3.0mm		
10030-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 100x2.1mm	G1021-3-SHC18EX	Guard columns Shaper C18 Extreme 100A 3µm 10x2.1mm 3/pk
5021-3-SH-C18EX	Shaper C18 Extreme 100A 3µm 50x2.1mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

Notes



Shaper HPLC columns

Shaper C18 AQ

Shaper AQ Columns



Stable from 100% of organic phase to 100% of aqueous phase.

The Surf AQ column possesses an extremely stable bonding phase which permits the use of a single column in diverse mobile phase conditions. You can easily work in highly organic or highly aqueous conditions.

- Available in a wide selection of column formats.
- Long column lifetime.
- Excellent retention of polar analytes with 100% aqueous mobile phases.
- High retention of hydrophobic analytes with 100% organic mobile phases.

Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation

Shaper C18 AQ 100A 5µm

Ø4.6mm			
25046-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 250x4.6mm	G1046-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 200x4.6mm		
15046-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 150x4.6mm		
12546-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 125x4.6mm		
10046-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 100x4.6mm		
7546-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 75x4.6mm		
5046-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 50x4.6mm		
3346-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 250x4.0mm	G1040-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 150x4.0mm		
12540-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 125x4.0mm		
5040-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 150x3.0mm	G1030-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 125x3.0mm		
10030-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 100x2.1mm	G1021-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C18AQ	Shaper C18 AQ 100A 5µm 50x2.1mm		

[1]

[1] requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

Shaper C18 AQ 100A 3µm

Ø4.6mm			
15046-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 150x4.6mm	G1046-3-SHC18AQ	Guard columns Shaper C18 AQ 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 125x4.6mm		
10046-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 100x4.6mm		
7546-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 75x4.6mm		
5046-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 50x4.6mm		
3346-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 33x4.6mm		
Ø4.0mm			
15040-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 150x4.0mm	G1040-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x4.0mm 3/pk
12540-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 125x4.0mm		
5040-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 50x4.0mm		
Ø3.0mm			
15030-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 150x3.0mm	G1030-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x3.0mm 3/pk
12530-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 125x3.0mm		
10030-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 100x2.1mm	G1021-5-SHC18AQ	Guard columns Shaper C18 AQ 100A 5µm 10x2.1mm 3/pk
5021-3-SH-C18AQ	Shaper C18 AQ 100A 3µm 50x2.1mm		

[1]

[1] requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

Notes



Shaper HPLC columns

Shaper C8 Global

Colonnes Shaper Global



High performance spherical natural silica, high purity, and low metal content for challenging applications.

The narrow distribution of particle size, combined with a specific surface and an optimal pore volume allows for robust particles with excellent retention characteristics.

- Excellent peak shape.
- Partition of acid, basic and neutral compounds in a single analysis.
- Excellent column lifetime.
- Normal endcapping for our **Shaper Global**.



Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation
Shaper C8 Global 100A 5µm			
Ø4.6mm			
25046-5-SH-C8	Shaper C8 Global 100A 5µm 250x4.6mm	G1046-5-SHC8	Guard columns Shaper C8 Global 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C8	Shaper C8 Global 100A 5µm 200x4.6mm		
15046-5-SH-C8	Shaper C8 Global 100A 5µm 150x4.6mm		
12546-5-SH-C8	Shaper C8 Global 100A 5µm 125x4.6mm		
10046-5-SH-C8	Shaper C8 Global 100A 5µm 100x4.6mm		
7546-5-SH-C8	Shaper C8 Global 100A 5µm 75x4.6mm		
5046-5-SH-C8	Shaper C8 Global 100A 5µm 50x4.6mm		
3346-5-SH-C8	Shaper C8 Global 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C8	Shaper C8 Global 100A 5µm 250x4.0mm	G1040-5-SHC8	Guard columns Shaper C8 Global 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C8	Shaper C8 Global 100A 5µm 150x4.0mm		
12540-5-SH-C8	Shaper C8 Global 100A 5µm 125x4.0mm		
5040-5-SH-C8	Shaper C8 Global 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C8	Shaper C8 Global 100A 5µm 150x3.0mm	G1030-5-SHC8	Guard columns Shaper C8 Global 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C8	Shaper C8 Global 100A 5µm 125x3.0mm		
10030-5-SH-C8	Shaper C8 Global 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C8	Shaper C8 Global 100A 5µm 100x2.1mm	G1021-5-SHC8	Guard columns Shaper C8 Global 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C8	Shaper C8 Global 100A 5µm 50x2.1mm		

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

Shaper C8 Global 100A 3µm

Ø4.6mm			
15046-3-SH-C8	Shaper C8 Global 100A 3µm 150x4.6mm	G1046-3-SHC8	Guard columns Shaper C8 Global 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C8	Shaper C8 Global 100A 3µm 125x4.6mm		
10046-3-SH-C8	Shaper C8 Global 100A 3µm 100x4.6mm		
7546-3-SH-C8	Shaper C8 Global 100A 3µm 75x4.6mm		
5046-3-SH-C8	Shaper C8 Global 100A 3µm 50x4.6mm		
3346-3-SH-C8	Shaper C8 Global 100A 3µm 33x4.6mm		
Ø4.0mm			
15040-3-SH-C8	Shaper C8 Global 100A 3µm 150x4.0mm	G1040-3-SHC8	Guard columns Shaper C8 Global 100A 3µm 10x4.0mm 3/pk
12540-3-SH-C8	Shaper C8 Global 100A 3µm 125x4.0mm		
5040-3-SH-C8	Shaper C8 Global 100A 3µm 50x4.0mm		
Ø3.0mm			
15030-3-SH-C8	Shaper C8 Global 100A 3µm 150x3.0mm	G1030-3-SHC8	Guard columns Shaper C8 Global 100A 3µm 10x3.0mm 3/pk
12530-3-SH-C8	Shaper C8 Global 100A 3µm 125x3.0mm		
10030-3-SH-C8	Shaper C8 Global 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C8	Shaper C8 Global 100A 3µm 100x2.1mm	G1021-3-SHC8	Guard columns Shaper C8 Global 100A 3µm 10x2.1mm 3/pk
5021-3-SH-C8	Shaper C8 Global 100A 3µm 50x2.1mm		

Shaper HPLC columns

Notes

[1] requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

Shaper C8 Extreme

Shaper Extreme Columns



- Born from our last-generation bonding technology.
- Controlled hydrophobia allowing the obtention of optimal retention times and a decrease in inclusion and «carry over» phenomena».
- High robustness in extreme environments.
- Steric selectivity.
- High density endcapping allowing work on a large pH range, from 1 to 10.



Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation
Shaper C8 Extreme 100A 5µm			
Ø4.6mm			
25046-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 250x4.6mm	G1046-5-SHC8EX	Guard columns Shaper C8 Extreme 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 200x4.6mm		
15046-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 150x4.6mm		
12546-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 125x4.6mm		
10046-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 100x4.6mm		
7546-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 75x4.6mm		
5046-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 50x4.6mm		
3346-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 250x4.0mm	G1040-5-SHC8EX	Guard columns Shaper C8 Extreme 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 150x4.0mm		
12540-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 125x4.0mm		
5040-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 150x3.0mm	G1030-5-SHC8EX	Guard columns Shaper C8 Extreme 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 125x3.0mm		
10030-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 100x2.1mm	G1021-5-SHC8EX	Guard columns Shaper C8 Extreme 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C8EX	Shaper C8 Extreme 100A 5µm 50x2.1mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

Shaper C8 Extreme 100A 3µm

Ø4.6mm			
15046-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 150x4.6mm	G1046-3-SHC8EX	Guard columns Shaper C8 Extreme 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 125x4.6mm		
10046-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 100x4.6mm		
7546-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 75x4.6mm		
5046-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 50x4.6mm		
3346-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 33x4.6mm		
Ø4.0mm			
15040-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 150x4.0mm	G1040-3-SHC8EX	Guard columns Shaper C8 Extreme 100A 3µm 10x4.0mm 3/pk
12540-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 125x4.0mm		
5040-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 50x4.0mm		
Ø3.0mm			
15030-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 150x3.0mm	G1030-3-SHC8EX	Guard columns Shaper C8 Extreme 100A 3µm 10x3.0mm 3/pk
12530-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 125x3.0mm		
10030-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 100x2.1mm	G1021-3-SHC8EX	Guard columns Shaper C8 Extreme 100A 3µm 10x2.1mm 3/pk
5021-3-SH-C8EX	Shaper C8 Extreme 100A 3µm 50x2.1mm		

(1)

Shaper HPLC columns

Notes



(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

Shaper C8 AQ

Colonnes Shaper AQ



Stable from 100% of organic phase to 100% of aqueous phase.

The Shaper AQ column possesses an extremely stable bonding phase which permits the use of a single column in diverse mobile phase conditions. You can easily work in highly organic or highly aqueous conditions.

High retention of hydrophobic analytes with 100% organic mobile phases.

- Available in a wide selection of column formats.
- Long column lifetime.
- Excellent retention of polar analytes with 100% aqueous mobile phases



Shaper HPLC columns

To Order

COLUMNS		GUARD COLUMNS	
Reference	Designation	Reference	Designation

Shaper C8 AQ 100A 5µm

Ø4.6mm			
25046-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 250x4.6mm	G1046-5-SHC8AQ	Guard columns Shaper C8 AQ 100A 5µm 10x4.6mm 3/pk
20046-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 200x4.6mm		
15046-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 150x4.6mm		
12546-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 125x4.6mm		
10046-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 100x4.6mm		
7546-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 75x4.6mm		
5046-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 50x4.6mm		
3346-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 33x4.6mm		
Ø4.0mm			
25040-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 250x4.0mm	G1040-5-SHC8AQ	Guard columns Shaper C8 AQ 100A 5µm 10x4.0mm 3/pk
15040-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 150x4.0mm		
12540-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 125x4.0mm		
5040-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 50x4.0mm		
Ø3.0mm			
15030-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 150x3.0mm	G1030-5-SHC8AQ	Guard columns Shaper C8 AQ 100A 5µm 10x3.0mm 3/pk
12530-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 125x3.0mm		
10030-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 100x3.0mm		
Ø2.1mm			
10021-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 100x2.1mm	G1021-5-SHC8AQ	Guard columns Shaper C8 AQ 100A 5µm 10x2.1mm 3/pk
5021-5-SH-C8AQ	Shaper C8 AQ 100A 5µm 50x2.1mm		

(1)

(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.

Shaper HPLC columns

To Order

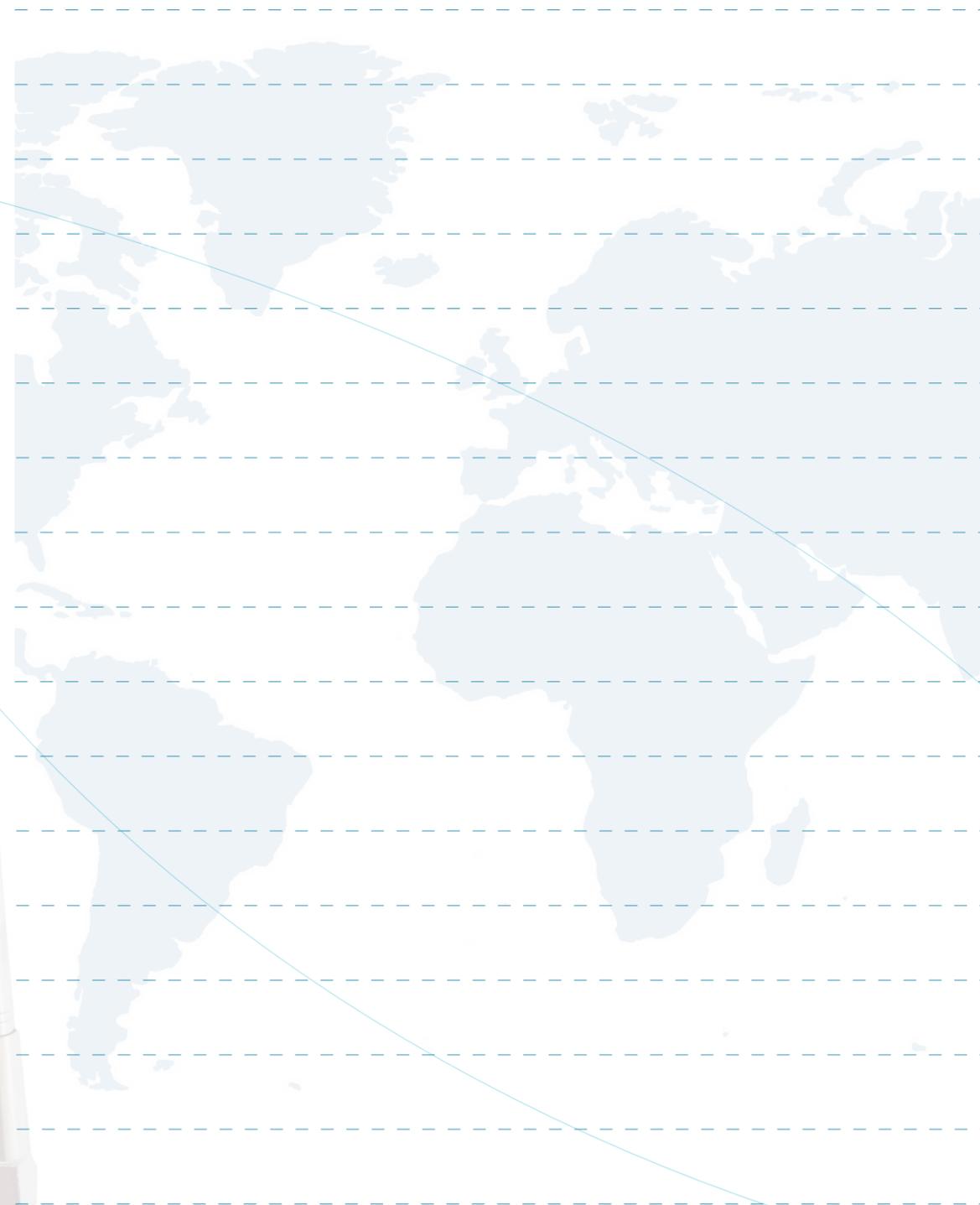
Shaper C8 AQ 100A 3µm

Ø4.6mm			
15046-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 150x4.6mm	G1046-3-SHC8AQ	Guard columns Shaper C8 AQ 100A 3µm 10x4.6mm 3/pk
12546-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 125x4.6mm		
10046-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 100x4.6mm		
7546-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 75x4.6mm		
5046-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 50x4.6mm		
3346-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 33x4.6mm		
Ø4.0mm			
25040-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 250x4.0mm	G1040-3-SHC8AQ	Guard columns Shaper C8 AQ 100A 3µm 10x4.0mm 3/pk
15040-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 150x4.0mm		
12540-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 125x4.0mm		
5040-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 50x4.0mm		
Ø3.0mm			
15030-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 150x3.0mm	G1030-3-SHC8AQ	Guard columns Shaper C8 AQ 100A 3µm 10x3.0mm 3/pk
12530-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 125x3.0mm		
10030-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 100x3.0mm		
Ø2.1mm			
10021-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 100x2.1mm	G1021-3-SHC8AQ	Guard columns Shaper C8 AQ 100A 3µm 10x2.1mm 3/pk
5021-3-SH-C8AQ	Shaper C8 AQ 100A 3µm 50x2.1mm		

(1)

Shaper HPLC columns

Notes



(1) requires HGSHAPER, Holder for Shaper guard columns 10x2.1mm, 10x3.0mm, 10x4.0mm, 10x4.6mm.



*im*Chem

164 Avenue Joseph Kessel - Bâtiment 7 - 78960 Voisins le Bretonneux - France
Tél. : +33 9 72 32 10 17 - Fax : +33 1 83 64 60 45 - info@imchem.fr - www.imchem.fr