

HAIPEEK & HAICART Guards

PEEK/TITANIUM and s.s. Guard Cartridges



Guide to HAIPEEK and HAICART Guard Cartridge Part Numbers

xK-0221-xxxx 20 x 2.1mm PEEK/titanium guard cartridge
 xF-0232-xxxx 20 x 3.2mm stainless steel guard cartridge

See Page 23 for complete Part Number information

Note: Old HAICART P/INs such as HI 18, TI 18, CIPH, etc. can still be used when ordering.

Analytical Guard Cartridges

The complete range of sorbents manufactured by Higgins Analytical is available in 2cm x 2.1 or 3.2mm I.D. guard cartridges. Not only does this provide a wide selection of products for protecting analytical and narrowbore HPLC columns, it also facilitates a wide variety of trace enrichment, column switching, and ballistic gradient applications.

These 2cm long cartridges require a reusable holder and are compatible with Higgins Analytical's HAIPEEK Guard Holders as well as PE/Brownlee's NewGuard Holder.

CLIQUEUS Guard Cartridges



CLIQUEUS C8 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 CK-0221-C085 \$200

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 CF-0232-C085 \$200

CLIQUEUS C18 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 CK-0221-C185 \$200

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 CF-0232-C185 \$200

CLIQUEUS Cyano 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 CK-0221-CNP5 \$210

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 CF-0232-CNP5 \$200

CLIQUEUS Phenyl 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 CK-0221-PHN5 \$210

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 CF-0232-PHN5 \$200

CLIQUEUS Silica 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 CK-0221-SIL5 \$200

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 CF-0232-SIL5 \$200

HASIL 100 Guard Cartridges



HASIL 100 C8 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 HK-0221-M085 \$200

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 HF-0232-M085 \$200

HASIL 100 C18 5µm

2.1mm I.D. Peek/Titanium

20X2.1mm 5/pkg
 HK-0221-M185 \$200

3.2mm I.D. Stainless Steel

20X3.2mm 5/pkg
 HF-0232-M185 \$200



HAISIL 300 Guard Cartridges



HAISIL 300 C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 HK-0221-W185 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 HF-0232-W185 \$210

HAISIL HL Guard Cartridges



HAISIL HL C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 LK-0221-C185 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 LF-0232-C185 \$210

HEAVY Guard Cartridges



HEAVY C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 VK-0221-C185 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 VF-0232-C185 \$210

PHALANX Guard Cartridges



PHALANX C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 PK-0221-C185 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 PF-0232-C185 \$210

PROTO 200 Guard Cartridges



PROTO 200 C4 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 RK-0221-D045 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 RF-0232-D045 \$210

PROTO 200 C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 RK-0221-D185 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 RF-0232-D185 \$210

PROTO 300 Guard Cartridges



PROTO 300 C4 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 RK-0221-W045 \$210

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 RF-0232-W045 \$210

PROTO 300 C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 RK-0221-W185 \$210

3.2mm I.D. Stainless Steel
 0X3.2mm 5/pkg
 RF-0232-W185 \$210

TARGA Guard Cartridges



TARGA C8 5µm

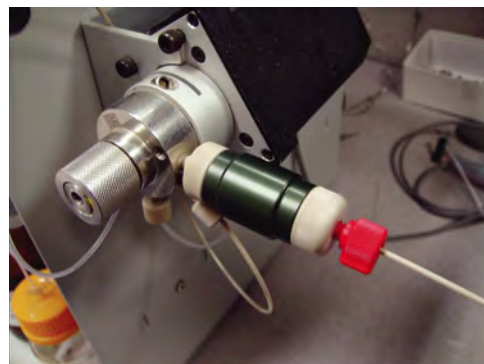
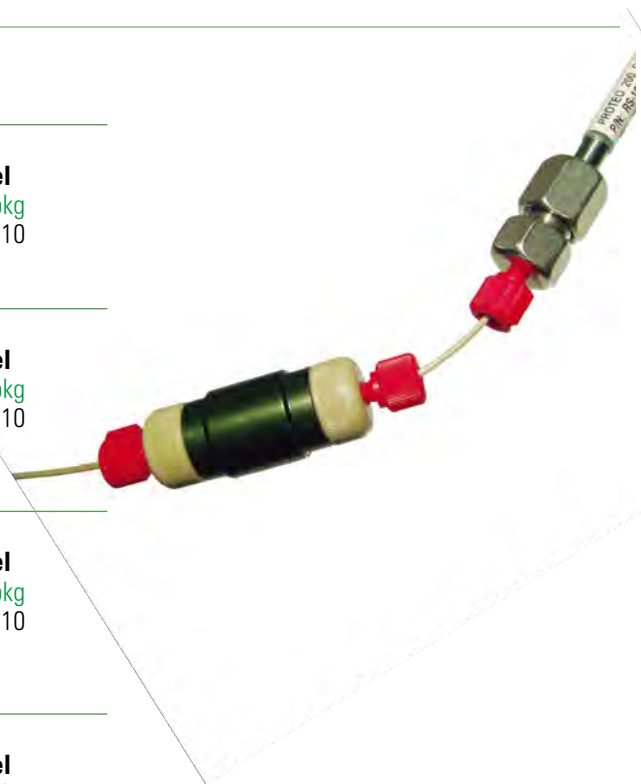
2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 TK-0221-C085 \$200

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 TF-0232-C085 \$200

TARGA C18 5µm

2.1mm I.D. Peek/Titanium
 20X2.1mm 5/pkg
 TK-0221-C185 \$200

3.2mm I.D. Stainless Steel
 20X3.2mm 5/pkg
 TF-0232-C185 \$200



HAISpeed20 CARTRIDGES

20mm I.D. Prep Guard Cartridge Columns



HAISpeed20 guard cartridges provide unique Protection for 20mm I.D. prep columns.

"Prep is a dirty business," and expensive columns can be quickly destroyed by crude samples if proper precautions are not taken. Higgins Analytical's HAISSpeed20 Prep Guard System provides effective column protection without compromising performance. In addition to an efficiently packed bed which retains strongly absorbing junk that would change the selectivity of the prep column, these unique guard cartridges have 0.5µm frits that remove particulate contaminants as well.

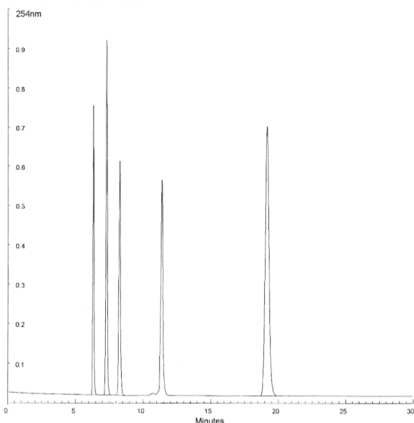
Guide to HAISSpeed 20 Cartridge Part Numbers

xF-0220-xxxx 25 x 20mm cartridge

See Page 23 for complete Part Number information

HAISpeed20 guard cartridges provide convenience and performance

HAISIL 100 C18 5µm
Dimensions 250 x 20mm
Catalog No. HS-2520-M185
Serial No. 937306



Catalog No.	HS-2520-M185		
Description:	HAISIL 100 C18 5µm		
Dimensions:	250 x 20mm		
Sorbent Lot#:	A18143	Monofunctional/Endcapped	
Particle Size:	5µm		
Pore Size:	100 Å		
Mobile Phase:	70% Acetonitrile in Water		
Flow Rate:	10mL/min		
Pressure:	33 bar	Temp:	29.5 °C
Peak: IR(min)		Plates(N)	Skewness
# 1	6.31 Dimethyl Phthalate	21,383	0.217
# 2	7.28 Nitrobenzene	21,020	0.164
# 3	8.25 Anisole	20,183	0.190
# 4	11.36 Diphenylamine		
# 5	19.16 Fluorene	18,694	0.161

File: 072 26/3

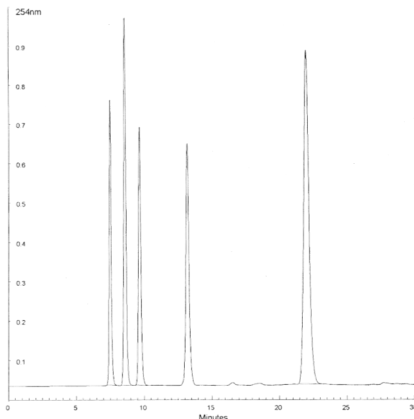


Typical 250x20mm HAISIL 100 C18 5µm Test Chromatogram.

HAISIL 300 C18 12µm
Dimensions 25 x 20mm
Catalog No. HF-0220-W182
Batch No. 260402

Coupled to

HAISIL 100 C18 5µm
Dimensions 250 x 20mm
Catalog No. HS-2520-M185



Catalog No.	HF-0220-W182		
Description:	HAISIL 300 C18 12µm		
Dimensions:	25 x 20mm		
Sorbent Lot#:	P25076	Monofunctional/Endcapped	
Particle Size:	12µm		
Pore Size:	300 Å		
Mobile Phase:	70% Acetonitrile in Water		
Flow Rate:	10mL/min		
Pressure:	bar	Temp:	28.5 °C
Peak: IR(min)	35 bar	Plates(N)	Skewness
# 1	7.50 Dimethyl Phthalate	10,655	0.328
# 2	8.59 Nitrobenzene	10,725	0.298
# 3	9.67 Anisole	11,094	0.294
# 4	13.19 Diphenylamine		
# 5	22.01 Fluorene	12,886	0.238

File: 172 26/4



The same 250x20mm 5µm column shown in the top chromatogram retested with a HAISSPEED 20 Guard Cartridge in line.



HAISIL 100 20mm I.D. Prep Guard Cartridges 

HAISIL 100 C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	HF-0220-M181	\$300	HF-0320-M181	\$160	HF-0520-M181	\$210

CLIPEUS 20mm I.D. Prep Guard Cartridges 

CLIPEUS C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	CF-0220-C181	\$300	CF-0320-C181	\$160	CF-0520-C181	\$210

HAISIL 300 20mm I.D. Prep Guard Cartridges 

HAISIL 300 C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	HF-0220-W181	\$300	HF-0320-W181	\$160	HF-0520-W181	\$210

PROTO 200 20mm I.D. Prep Guard Cartridges 200 

PROTO 200 C4 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-D041	\$300	RF-0320-D041	\$160	RF-0520-D041	\$210

PROTO 200 C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-D181	\$300	RF-0320-D181	\$160	RF-0520-D181	\$210

PROTO 300 20mm I.D. Prep Guard Cartridges 

PROTO 300 C4 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-W041	\$300	RF-0320-W041	\$160	RF-0520-W041	\$210

PROTO 300 C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	RF-0220-W181	\$300	RF-0320-W181	\$160	RF-0520-W181	\$210

PHALANX 20mm I.D. Prep Guard Cartridges 

PHALANX C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	PF-0220-C181	\$300	PF-0320-C181	\$160	PF-0520-C181	\$210

TARGA 20mm I.D. Prep Guard Cartridges 

TARGA C18 10µm	20mm I.D.	s.s. Prep Guard Cartridges				
	25x20mm	2/pkg	35x20mm	1/pk	50x20mm	1/pk
	TF-0220-C181	\$300	TF-0320-C181	\$160	TF-0520-C181	\$210

Both a Filter and a Guard

The 0.5µm pore size frits on HAIspeed20 cartridges provide unique built-in filtration for maximum column protection. These cartridges are shipped with end caps that prevent solvent loss and protect the cartridge and frits.

