

# Hypersil GOLD HPLC and UHPLC Columns

## Outstanding peak shape for your separations

Thermo Scientific™ Hypersil GOLD™ columns are an ideal choice for new method development, delivering outstanding peak shape and increased sensitivity for your separations.

- **Solutions for all Separation Needs**  
Particle sizes and column designs optimized for all analyses
- **Improved Sensitivity**  
Excellent peak symmetry
- **Enhanced Resolution**  
Separation of complex samples
- **pH Stability**  
Robust assays at extended pH



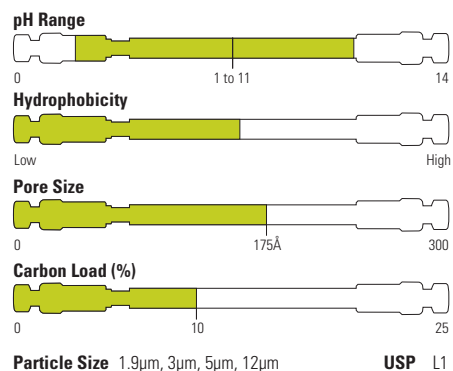
The Hypersil GOLD web page contains the latest news, applications and downloads for the Hypersil GOLD HPLC column range.

Visit [www.thermoscientific.com/hypersilgold](http://www.thermoscientific.com/hypersilgold)

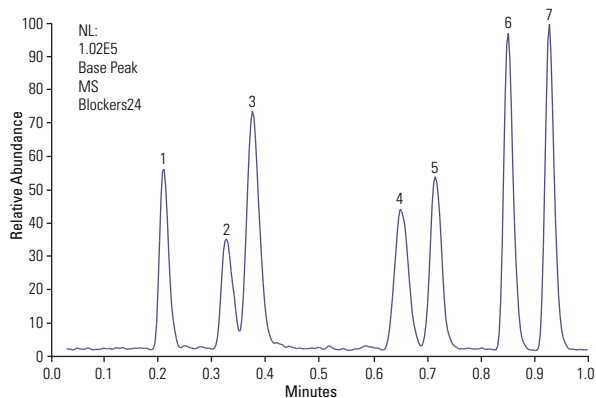
## Hypersil GOLD

Endcapped, ultra-pure, silica-based columns with exceptional peak shape and resolution for HPLC and LC-MS

- Significant reduction in peak tailing while retaining C18 selectivity
- Excellent resolution, efficiency and sensitivity
- Confidence in the accuracy and quality of analytical data



### Seven β-blockers in 1 minute



#### Hypersil GOLD, 1.9µm, 20 x 2.1mm

Mobile Phase A:	H <sub>2</sub> O+0.1%formic acid
Mobile Phase B:	MeCN+0.1%formic acid
Gradient:	15 to 100% B in 1min
Temperature:	30°C
Flow Rate:	0.5mL/min
Detection:	+ESI
Analytes:	1. Atenolol 2. Nadolol 3. Pindolol 4. Timolol 5. Metoprolol 6. Oxprenolol 7. Propranolol

### Hypersil GOLD

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID	
1.9	UHPLC Column	20	-	<b>25002-022130</b>	-	-	-	
		30	<b>25002-031030</b>	<b>25002-032130</b>	-	-	-	
		50	<b>25002-051030</b>	<b>25002-052130</b>	<b>25002-053030</b>	-	<b>25002-054630</b>	
		100	<b>25002-101030</b>	<b>25002-102130</b>	<b>25002-103030</b>	-	-	
		150	-	<b>25002-152130</b>	-	-	-	
		200	-	<b>25002-202130</b>	-	-	-	
3	Drop-in Guard (4/pk)	10	<b>25003-011001</b>	<b>25003-012101</b>	<b>25003-013001</b>	<b>25003-014001</b>	<b>25003-014001</b>	
		30	-	<b>25003-032130</b>	-	-	<b>25003-034630</b>	
	HPLC Column	50	-	<b>25003-052130</b>	<b>25003-053030</b>	<b>25003-054030</b>	<b>25003-054630</b>	
		100	<b>25003-101030</b>	<b>25003-102130</b>	<b>25003-103030</b>	<b>25003-104030</b>	<b>25003-104630</b>	
		150	<b>25003-151030</b>	<b>25003-152130</b>	<b>25003-153030</b>	<b>25003-154030</b>	<b>25003-154630</b>	
		250	-	<b>25003-252130</b>	<b>25003-253030</b>	<b>25003-254030</b>	<b>25003-254630</b>	
5	Drop-in Guard (4/pk)	10	-	<b>25005-012101</b>	<b>25005-013001</b>	<b>25005-014001</b>	<b>25005-014001</b>	
		30	-	<b>25005-032130</b>	<b>25005-033030</b>	-	<b>25005-034630</b>	
	HPLC Column	50	-	<b>25005-052130</b>	<b>25005-053030</b>	-	<b>25005-054630</b>	
		100	-	<b>25005-102130</b>	<b>25005-103030</b>	-	<b>25005-104630</b>	
		150	-	<b>25005-152130</b>	<b>25005-153030</b>	<b>25005-154030</b>	<b>25005-154630</b>	
		250	-	<b>25005-252130</b>	<b>25005-253030</b>	<b>25005-254030</b>	<b>25005-254630</b>	
		UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

**Hypersil GOLD Preparative**

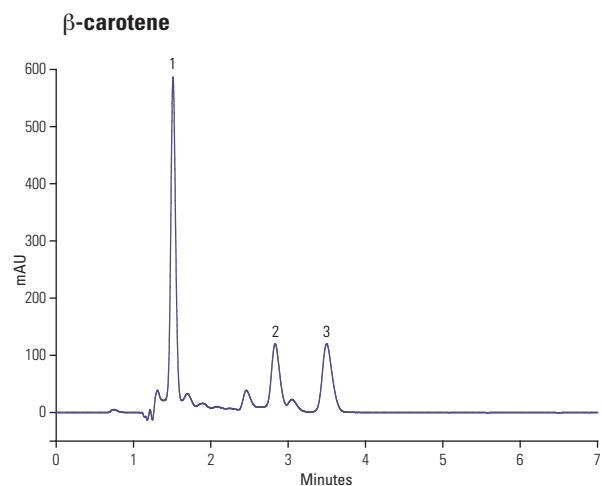
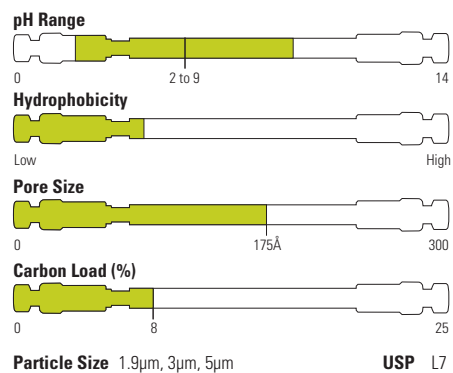
Particle Size (µm)	Format	Length (mm)	10mm ID	20mm ID	21mm ID	30mm ID	50mm ID
5	Preparative Guard Cartridge (3/pk)	10	<b>25005-019023</b>	<b>25005-019223</b>	-	-	-
	Preparative HPLC Column	50	<b>25005-059070</b>	-	-	<b>25005-059370</b>	<b>25005-059570</b>
		100	<b>25005-109070</b>	-	<b>25005-109270</b>	<b>25005-109370</b>	<b>25005-109570</b>
		150	<b>25005-159070</b>	-	<b>25005-159270</b>	<b>25005-159370</b>	<b>25005-159570</b>
		250	<b>25005-259070</b>	-	<b>25005-259270</b>	<b>25005-259370</b>	<b>25005-259570</b>
12	Preparative Guard Cartridge (3/pk)	10	<b>25012-019023</b>	<b>25012-019223</b>	-	-	-
	Preparative HPLC Column	50	<b>25012-059070</b>	-	<b>25012-059270</b>	<b>25012-059370</b>	<b>25012-059570</b>
		100	<b>25012-109070</b>	-	<b>25012-109270</b>	<b>25012-109370</b>	<b>25012-109570</b>
		150	-	-	<b>25012-159270</b>	<b>25012-159370</b>	<b>25012-159570</b>
		250	<b>25012-259070</b>	-	<b>25012-259270</b>	<b>25012-259370</b>	<b>25012-259570</b>
	Preparative Guard Cartridge Holder	10	<b>C-1000</b>	<b>854-00</b>	-	-	-



## Hypersil GOLD C8

Recommended for analytes with medium hydrophobicity or when a less hydrophobic phase is required to obtain optimum retention

- Similar selectivity to C18 columns but with reduced retention
- Lower hydrophobicity, allowing compounds to elute quicker
- Faster separations
- Excellent peak shape
- High efficiency
- Outstanding sensitivity



### Hypersil GOLD C8 5µm, 150 x 4.6mm

Mobile Phase:	MeOH
Temperature:	25°C
Flow Rate:	1.5mL/min
Detection:	UV, 450nm
Analytes:	1. Lutein 2. Lycopene 3. β-Carotene

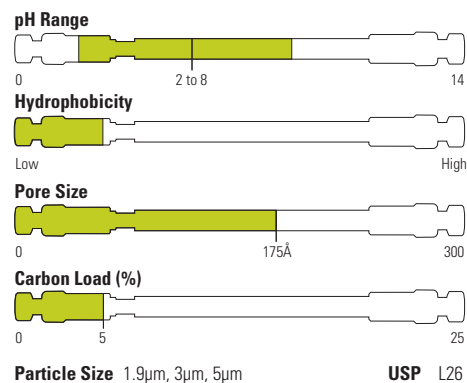
### Hypersil GOLD C8

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	20	-	<b>25202-022130</b>	-	-	-
		30	-	<b>25202-032130</b>	-	-	-
		50	-	<b>25202-052130</b>	<b>25202-053030</b>	-	<b>25202-054630</b>
		100	<b>25202-101030</b>	<b>25202-102130</b>	<b>25202-103030</b>	-	-
		150	-	<b>25202-152130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25203-011001</b>	<b>25203-012101</b>	<b>25203-013001</b>	<b>25203-014001</b>	<b>25203-014001</b>
	HPLC Column	50	-	<b>25203-052130</b>	<b>25203-053030</b>	<b>25203-054030</b>	<b>25203-054630</b>
		100	<b>25203-101030</b>	<b>25203-102130</b>	<b>25203-103030</b>	<b>25203-104030</b>	<b>25203-104630</b>
		150	-	<b>25203-152130</b>	<b>25203-153030</b>	<b>25203-154030</b>	<b>25203-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25205-012101</b>	<b>25205-013001</b>	<b>25205-014001</b>	<b>25205-014001</b>
	HPLC Column	50	-	<b>25205-052130</b>	<b>25205-053030</b>	-	<b>25205-054630</b>
		100	-	<b>25205-102130</b>	<b>25205-103030</b>	-	<b>25205-104630</b>
		150	-	<b>25205-152130</b>	<b>25205-153030</b>	<b>25205-154030</b>	<b>25205-154630</b>
		250	-	<b>25205-252130</b>	<b>25205-253030</b>	<b>25205-254030</b>	<b>25205-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

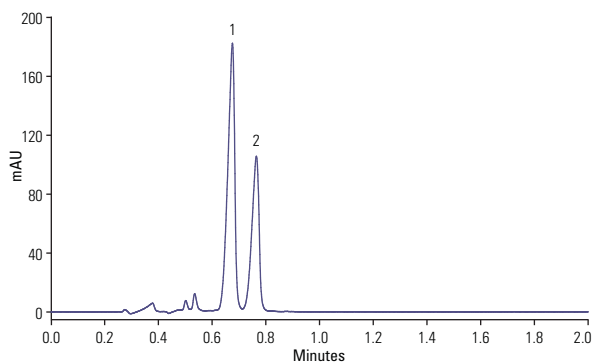
## Hypersil GOLD C4

Lower hydrophobicity than C18 or C8 recommended for very hydrophobic analytes

- Lower hydrophobicity
- Faster separations
- Excellent peak shape
- High efficiency
- Outstanding sensitivity



### Fatty acids



#### Hypersil GOLD C4 1.9µm, 100 x 2.1mm

Mobile Phase:	H <sub>2</sub> O / MeCN (20:80)
Temperature:	30°C
Flow Rate:	0.55mL/min
Injection Volume:	1µL
Detection:	200 nm
Analytes:	1. Linolenic acid 2. Linoleic acid

### Hypersil GOLD C4

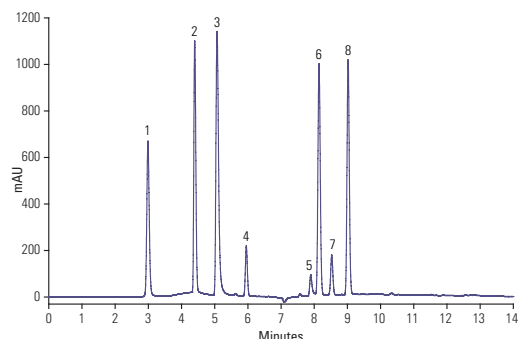
Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>25502-052130</b>	-	-
		100	-	<b>25502-102130</b>	-	-
		150	-	<b>25502-152130</b>	-	-
3	Drop-in Guard (4/pk)	10	<b>25503-011001</b>	<b>25503-012101</b>	<b>25503-013001</b>	<b>25503-014001</b>
	HPLC Column	50	-	<b>25503-052130</b>	-	-
		100	-	<b>25503-102130</b>	<b>25503-103030</b>	<b>25503-104630</b>
		150	<b>25503-151030</b>	<b>25503-152130</b>	<b>25503-153030</b>	<b>25503-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25505-012101</b>	<b>25505-013001</b>	<b>25505-014001</b>
	HPLC Column	50	-	<b>25505-052130</b>	-	<b>25505-054630</b>
		100	-	<b>25505-102130</b>	<b>25505-103030</b>	<b>25505-104630</b>
		150	-	<b>25505-152130</b>	-	<b>25505-154630</b>
		250	-	<b>25505-252130</b>	<b>25505-253030</b>	<b>25505-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

## Hypersil GOLD aQ

Controlled interaction mechanism by which polar analytes can be retained and resolved

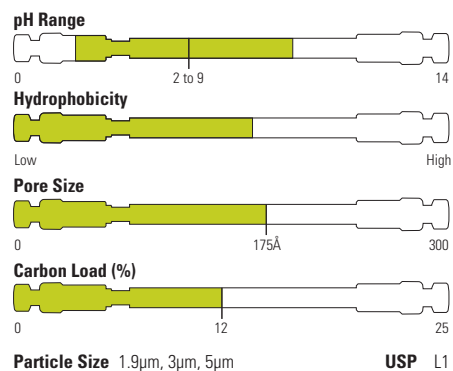
- Polar endcapped C18 phase for alternative selectivity
- Retention and resolution of polar analytes
- Stable in 100% aqueous mobile phases

### Water soluble vitamins



#### Hypersil GOLD aQ 5µm, 150 x 4.6mm

Mobile Phase A:	50 mM KH <sub>2</sub> PO <sub>4</sub> , pH 3.5
Mobile Phase B:	MeOH
Gradient:	0 – 100% B in 15 min
Flow Rate:	1mL/min
Detection:	UV, 205nm
Analytes:	1. Vitamin B1 (thiamine) 2. Vitamin B6 (pyridoxine) 3. Vitamin B3 (nicotinamide) 4. Vitamin B5 (pantothenic acid) 5. Folic Acid 6. Vitamin B12 (cyanocobalamin) 7. Vitamin H (biotin) 8. Vitamin B2 (riboflavin)



### Hypersil GOLD aQ

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	20	-	<b>25302-022130</b>	-	-	-
		30	-	<b>25302-032130</b>	-	-	-
		50	<b>25302-051030</b>	<b>25302-052130</b>	<b>25302-053030</b>	-	<b>25302-054630</b>
		100	<b>25302-101030</b>	<b>25302-102130</b>	<b>25302-103030</b>	-	-
		150	-	<b>25302-152130</b>	-	-	-
		200	-	<b>25302-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25303-011001</b>	<b>25303-012101</b>	<b>25303-013001</b>	<b>25303-014001</b>	<b>25303-014001</b>
		30	-	<b>25303-032130</b>	<b>25303-033030</b>	-	-
	HPLC Column	50	-	<b>25303-052130</b>	<b>25303-053030</b>	<b>25303-054030</b>	<b>25303-054630</b>
		100	<b>25303-101030</b>	<b>25303-102130</b>	<b>25303-103030</b>	<b>25303-104030</b>	<b>25303-104630</b>
		150	<b>25303-151030</b>	<b>25303-152130</b>	<b>25303-153030</b>	<b>25303-154030</b>	<b>25303-154630</b>
		250	-	<b>25303-252130</b>	-	<b>25303-254030</b>	<b>25303-254630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25305-012101</b>	<b>25305-013001</b>	<b>25305-014001</b>	<b>25305-014001</b>
		30	-	<b>25305-032130</b>	<b>25305-033030</b>	-	-
	HPLC Column	50	-	<b>25305-052130</b>	<b>25305-053030</b>	-	<b>25305-054630</b>
		100	-	<b>25305-102130</b>	<b>25305-103030</b>	-	<b>25305-104630</b>
		150	-	<b>25305-152130</b>	<b>25305-153030</b>	-	<b>25305-154630</b>
		250	-	<b>25305-252130</b>	-	<b>25305-254030</b>	<b>25305-254630</b>
UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>	

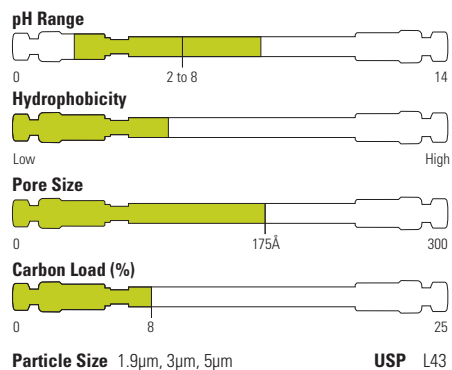
### Hypersil GOLD aQ Preparative

Particle Size (µm)	Format	Length (mm)	10mm ID	20mm ID	21mm ID	30mm ID	50mm ID
5	Preparative Guard Cartridge (3/pk)	10	<b>25305-019023</b>	<b>25305-019223</b>	-	-	-
		50	<b>25305-059070</b>	-	<b>25305-059270</b>	<b>25305-059370</b>	<b>25305-059570</b>
	Preparative HPLC Column	100	<b>25305-109070</b>	-	<b>25305-109270</b>	<b>25305-109370</b>	<b>25305-109570</b>
		150	<b>25305-159070</b>	-	<b>25305-159270</b>	<b>25305-159370</b>	<b>25305-159570</b>
		250	<b>25305-259070</b>	-	<b>25305-259270</b>	<b>25305-259370</b>	<b>25305-259570</b>

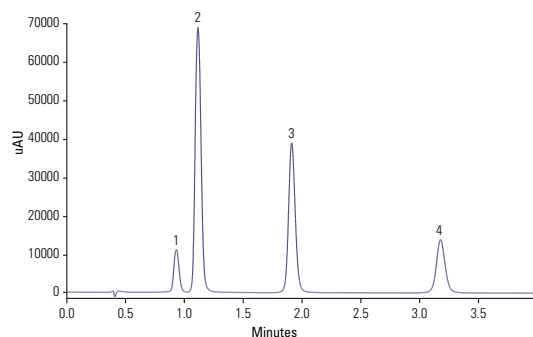
## Hypersil GOLD PFP

Introduction of a fluorine group into the stationary phase causes significant changes in solute-stationary phase interaction

- Fluorine atoms around the phenyl ring enhance pi-pi interactions with aromatic molecules
- Extra retention for halogenated species
- Selectivity for non-halogenated polar compounds



### Polyphenols



#### Hypersil GOLD PFP 1.9μm, 50 x 2.1mm

Mobile Phase:	0.1% Acetic Acid
Temperature:	25°C
Flow Rate:	0.5mL/min
Injection Volume:	0.5μL
Detection:	UV, 280nm
Analytes:	1. Pyrogallol 2. Hydroquinone 3. Resorcinol 4. Phenol

### Hypersil GOLD PFP

Particle Size (μm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	20	-	<b>25402-022130</b>	-	-	-
		30	-	<b>25402-032130</b>	-	-	-
		50	<b>25402-051030</b>	<b>25402-052130</b>	<b>25402-053030</b>	-	<b>25402-054630</b>
		100	<b>25402-101030</b>	<b>25402-102130</b>	<b>25402-103030</b>	-	-
		150	-	<b>25402-152130</b>	-	-	-
		200	-	<b>25402-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25403-011001</b>	<b>25403-012101</b>	<b>25403-013001</b>	<b>25403-014001</b>	<b>25403-014001</b>
	HPLC Column	30	-	<b>25403-032130</b>	<b>25403-033030</b>	-	<b>25403-034630</b>
		50	-	<b>25403-052130</b>	<b>25403-053030</b>	<b>25403-054030</b>	<b>25403-054630</b>
		100	<b>25403-101030</b>	<b>25403-102130</b>	<b>25403-103030</b>	<b>25403-104030</b>	<b>25403-104630</b>
		150	<b>25403-151030</b>	<b>25403-152130</b>	<b>25403-153030</b>	-	<b>25403-154630</b>
		200	-	<b>25403-202130</b>	-	-	-
5	Drop-in Guard (4/pk)	10	-	<b>25405-012101</b>	<b>25405-013001</b>	<b>25405-014001</b>	<b>25405-014001</b>
	HPLC Column	50	-	<b>25405-052130</b>	<b>25405-053030</b>	-	-
		100	-	<b>25405-102130</b>	<b>25405-103030</b>	-	<b>25405-104630</b>
		150	-	<b>25405-152130</b>	<b>25405-153030</b>	<b>25405-154030</b>	<b>25405-154630</b>
		250	-	<b>25405-252130</b>	-	<b>25405-254030</b>	<b>25405-254630</b>
		UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>

### Hypersil GOLD PFP Preparative

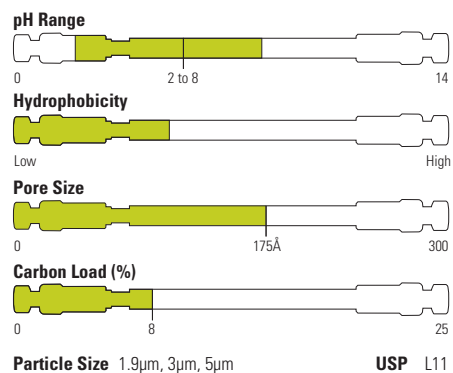
Particle Size (μm)	Format	Length (mm)	10mm ID	20mm ID	21mm ID	30mm ID	50mm ID
5	Preparative Guard Cartridge (3/pk)	10	<b>25405-019023</b>	<b>25405-019223</b>	-	-	-
	Preparative HPLC Column	50	<b>25405-059070</b>	-	<b>25405-059270</b>	<b>25405-059370</b>	<b>25405-059570</b>
		100	<b>25405-109070</b>	-	<b>25405-109270</b>	<b>25405-109370</b>	<b>25405-109570</b>
		150	<b>25405-159070</b>	-	<b>25405-159270</b>	<b>25405-159370</b>	<b>25405-159570</b>
		250	<b>25405-259070</b>	-	<b>25405-259270</b>	<b>25405-259370</b>	<b>25405-259570</b>



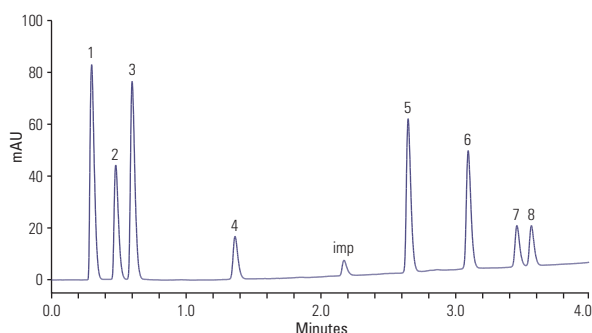
## Hypersil GOLD Phenyl

Contains a C4 linker which allows for superior alignment of the phenyl ring with aromatic molecules

- Enhanced pi-pi interactions with aromatics
- Moderate hydrophobicity
- Outstanding peak shape and sensitivity



### Antidepressants



#### Hypersil GOLD Phenyl 1.9µm, 50 x 2.1mm

Mobile Phase A:	0.1% Formic acid
Mobile Phase B:	0.1% Formic acid in MeCN
Gradient:	10 – 60% B in 3.4mins, 60 – 90% B in 0.24 min
Temperature:	60°C
Flow Rate:	0.5mL/min
Injection Volume:	0.7µL
Detection:	UV, 225 and 254nm
Analytes:	1. Uracil 2. Acetaminophen 3. p-Hydroxybenzoic acid 4. o-Hydroxybenzoic acid 5. Oxazepam 6. Diazepam 7. Di-isopropyl phthalate 8. Di-n-propyl phthalate

### Hypersil GOLD Phenyl

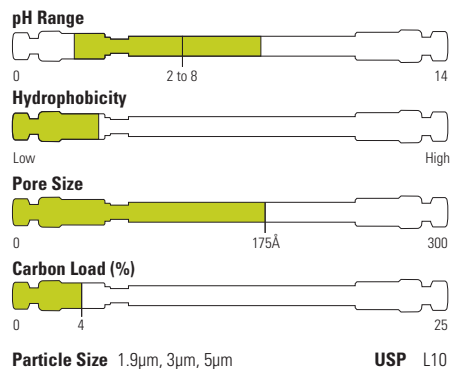
Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>25902-052130</b>	-	-	-
		100	-	<b>25902-102130</b>	-	-	-
		150	-	<b>25902-152130</b>	-	-	-
		200	-	<b>25902-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25903-011001</b>	<b>25903-012101</b>	<b>25903-013001</b>	<b>25903-014001</b>	<b>25903-014001</b>
	HPLC Column	50	-	<b>25903-052130</b>	-	-	-
		100	-	<b>25903-102130</b>	<b>25903-103030</b>	-	<b>25903-104630</b>
5	HPLC Column	150	<b>25903-151030</b>	-	<b>25903-153030</b>	-	<b>25903-154630</b>
		10	-	<b>25905-012101</b>	<b>25905-013001</b>	<b>25905-014001</b>	<b>25905-014001</b>
		50	-	<b>25905-052130</b>	-	-	<b>25905-054630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	100	-	<b>25905-102130</b>	<b>25905-103030</b>	-	-
		150	-	-	-	-	<b>25905-154630</b>
		250	-	-	<b>25905-253030</b>	<b>25905-254030</b>	<b>25905-254630</b>
		10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>



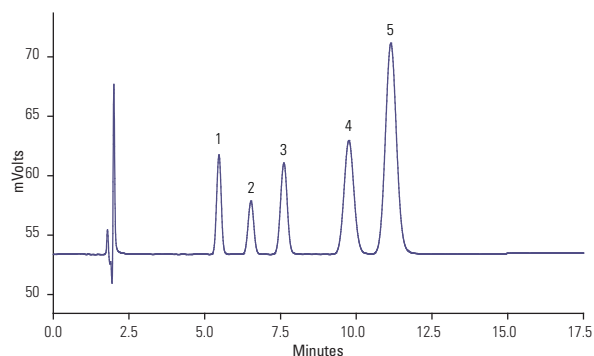
# Hypersil GOLD CN

For both normal phase and reversed-phase separations

- Provide alternative selectivity with lower hydrophobicity
- Excellent peak shape
- Outstanding sensitivity
- Less retention for faster analysis



## Organic acids



### Hypersil GOLD CN 5µm, 150 x 4.6mm

Mobile Phase A:	25 mM KH <sub>2</sub> PO <sub>4</sub> , pH2
Mobile Phase B:	MeOH
Temperature:	25°C
Flow Rate:	1.5mL/min
Detection:	UV, 230nm
Analytes:	1. 4-Fluorobenzoic 2. o-Toluic Acid 3. p-Toluic Acid 4. 2,4,6-Trimethylbenzoic Acid 5. 2,5-Dimethylbenzoic Acid

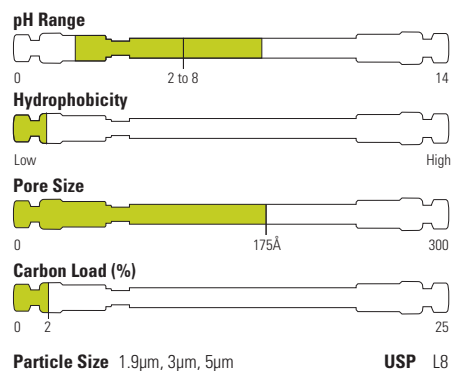
## Hypersil GOLD CN

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>25802-052130</b>	-	-	-
		100	-	<b>25802-102130</b>	-	-	-
		200	-	<b>25802-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25803-011001</b>	<b>25803-012101</b>	<b>25803-013001</b>	<b>25803-014001</b>	<b>25803-014001</b>
	HPLC Column	30	-	<b>25803-032130</b>	-	-	-
		50	-	<b>25803-052130</b>	-	-	-
		100	-	<b>25803-102130</b>	<b>25803-103030</b>	-	<b>25803-104630</b>
		150	<b>25803-151030</b>	<b>25803-152130</b>	<b>25803-153030</b>	-	<b>25803-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25805-012101</b>	<b>25805-013001</b>	<b>25805-014001</b>	<b>25805-014001</b>
	HPLC Column	50	-	<b>25805-052130</b>	-	-	<b>25805-054630</b>
		100	-	<b>25805-102130</b>	<b>25805-103030</b>	-	-
		150	-	<b>25805-152130</b>	-	-	<b>25805-154630</b>
		250	-	<b>25805-252130</b>	<b>25805-253030</b>	<b>25805-254030</b>	<b>25805-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

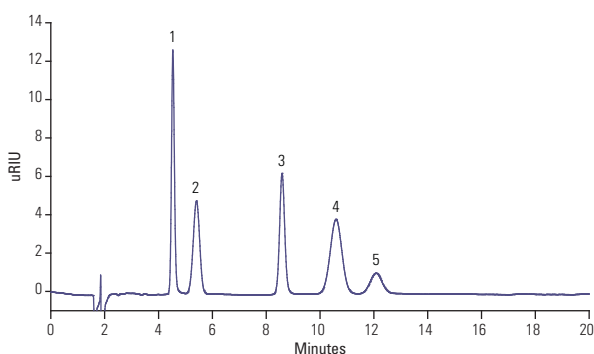
## Hypersil GOLD Amino

A high performance aminopropyl phase that gives excellent chromatographic properties in three modes: weak anion exchange, reversed-phase and normal phase

- Retains anions and organic acids in weak anion exchange
- Excellent for carbohydrate analysis in reversed-phase
- Alternative selectivity to silica columns in normal phase chromatography
- Outstanding peak shape and sensitivity



### Sugars



#### Hypersil GOLD Amino 5µm, 150 x 4.6mm

Mobile Phase:	MeCN/Water (80:20)
Temperature:	35°C
Flow Rate:	1.2mL/min
Injection Volume:	20µL
Detection:	RI
Analytes:	1. Fructose 2. Glucose 3. Sucrose 4. Maltose 5. Lactose

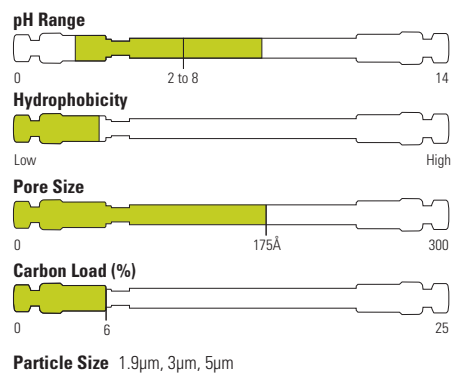
### Hypersil GOLD Amino

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>25702-052130</b>	-	-	-
		100	-	<b>25702-102130</b>	-	-	-
		150	-	<b>25702-152130</b>	-	-	-
		200	-	<b>25702-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25703-011001</b>	<b>25703-012101</b>	<b>25703-013001</b>	<b>25703-014001</b>	<b>25703-014001</b>
	HPLC Column	30	-	<b>25703-032130</b>	-	-	-
		50	-	<b>25703-052130</b>	-	-	-
		100	-	<b>25703-102130</b>	<b>25703-103030</b>	-	<b>25703-104630</b>
		150	<b>25703-151030</b>	<b>25703-152130</b>	<b>25703-153030</b>	-	<b>25703-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25705-012101</b>	<b>25705-013001</b>	<b>25705-014001</b>	<b>25705-014001</b>
		50	-	<b>25705-052130</b>	-	-	<b>25705-054630</b>
	HPLC Column	100	-	<b>25705-102130</b>	<b>25705-103030</b>	-	-
		150	-	-	-	-	<b>25705-154630</b>
		250	-	<b>25705-252130</b>	<b>25705-253030</b>	<b>25705-254030</b>	<b>25705-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

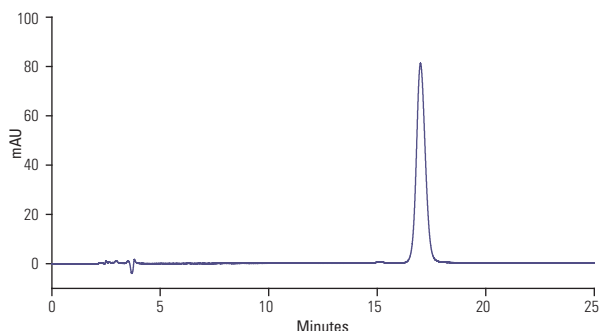
## Hypersil GOLD AX

A novel polymeric amine ligand bonded to highly pure base deactivated silica

- Weak anion exchange phase for multiple charged species
- Suitable for HILIC retention and separation of highly polar molecules
- Higher efficiency than polymer based ion exchange columns
- Outstanding peak shape and selectivity



### Vitamin C



#### Hypersil GOLD AX 5µm, 100 x 4.6mm

Mobile Phase:	100 mM Ammonium Acetate pH 6.8/ MeCN (30:70)
Temperature:	30°C
Flow Rate:	0.5mL/min
Injection Volume:	50µL
Detection:	UV, 240nm

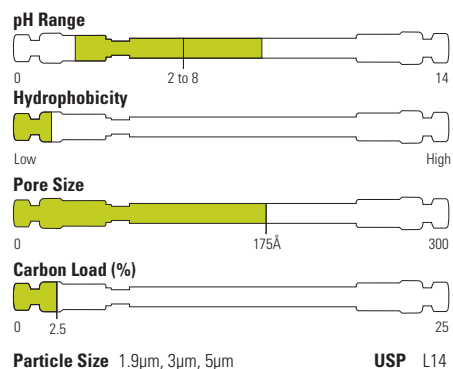
### Hypersil GOLD AX

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>26102-052130</b>	-	-	-
		100	-	<b>26102-102130</b>	-	-	-
		150	-	<b>26102-152130</b>	-	-	-
		200	-	<b>26102-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>26103-011001</b>	<b>26103-012101</b>	<b>26103-013001</b>	<b>26103-014001</b>	<b>26103-014001</b>
	HPLC Column	30	-	<b>26103-032130</b>	-	-	-
		50	-	<b>26103-052130</b>	-	-	-
		100	-	<b>26103-102130</b>	-	-	<b>26103-104630</b>
		150	<b>26103-151030</b>	<b>26103-152130</b>	<b>26103-153030</b>	-	<b>26103-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>26105-012101</b>	<b>26105-013001</b>	<b>26105-014001</b>	<b>26105-014001</b>
	HPLC Column	50	-	-	-	-	<b>26105-054630</b>
		100	-	<b>26105-102130</b>	-	-	<b>26105-104630</b>
		150	-	<b>26105-152130</b>	-	-	<b>26105-154630</b>
		250	-	<b>26105-252130</b>	<b>26105-253030</b>	<b>26105-254030</b>	-
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

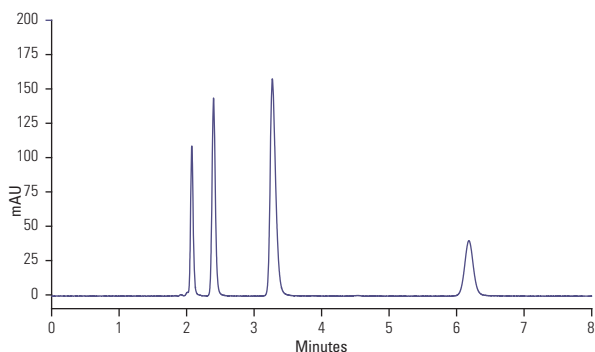
## Hypersil GOLD SAX

A highly stable quaternary amine strong anion exchange column for aqueous and low pH mobile phases

- High stability to aqueous and low pH mobile phases
- Ideally suited to the analysis of smaller organic molecules including nucleotides and organic acids
- Outstanding peak shape and sensitivity



### Monophosphates



#### Hypersil GOLD SAX 5µm, 150 x 4.6mm

Mobile Phase:	Aqueous $\text{KH}_2\text{PO}_4$ (50 mM, pH 3)
Temperature:	40°C
Flow Rate:	1.0 mL/min
Injection Volume:	10 µL
Detection:	UV, 254nm

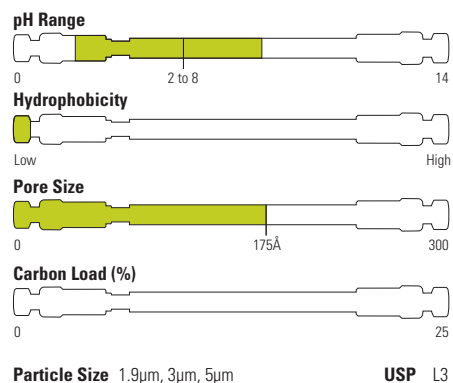
### Hypersil GOLD SAX

Particle Size (µm)	Format	Length (mm)	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	100	<b>26302-102130</b>	-	-	-
		150	<b>26302-152130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>26303-012101</b>	<b>26303-013001</b>	<b>26303-014001</b>	<b>26303-014001</b>
	HPLC Column	50	<b>26303-052130</b>	-	-	-
		100	<b>26303-102130</b>	<b>26303-103030</b>	-	<b>26303-104630</b>
		150	-	<b>26303-153030</b>	-	<b>26303-154630</b>
5	Drop-in Guard (4/pk)	10	<b>26305-012101</b>	<b>26305-013001</b>	<b>26305-014001</b>	<b>26305-014001</b>
	HPLC Column	50	<b>26305-052130</b>	-	-	-
		100	<b>26305-102130</b>	<b>26305-103030</b>	-	<b>26305-104630</b>
		150	<b>26305-152130</b>	-	-	<b>26305-154630</b>
		250	<b>26305-252130</b>	<b>26305-253030</b>	<b>26305-254030</b>	<b>26305-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

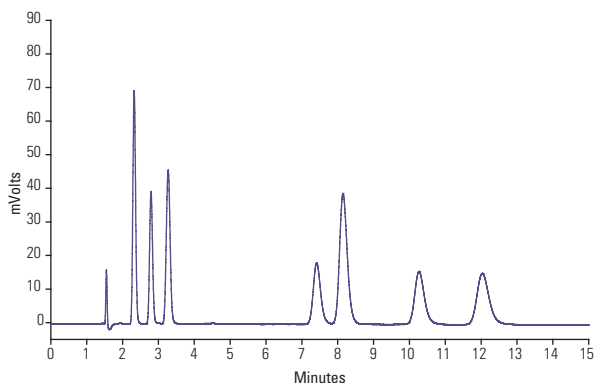
## Hypersil GOLD Silica

Unbonded, highly pure base deactivated silica media that is the backbone of the Hypersil GOLD range of columns

- Highly pure base deactivated silica media
- Outstanding peak shape and sensitivity



### Steroids



#### Hypersil GOLD Silica 5µm, 150 x 4.6mm

Mobile Phase:	19:1 (v/v) n-C6H14/EtOH
Temperature:	30°C
Flow Rate:	1.5mL/min
Injection volume:	5µL
Detection:	UV, 254nm
Analytes:	<ol style="list-style-type: none"> <li>1. Progesterone</li> <li>2. 21-Hydroxyprogesterone-21-acetate</li> <li>3. 17-<math>\alpha</math>-Hydroxyprogesterone</li> <li>4. Cortisone</li> <li>5. 11-<math>\alpha</math>-Hydroxyprogesterone</li> <li>6. Corticosterone</li> <li>7. Hydrocortisone</li> </ol>

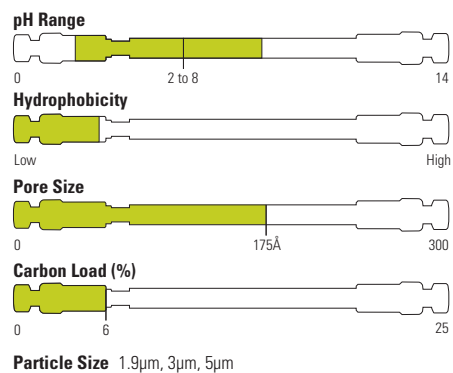
### Hypersil GOLD Silica

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>25102-052130</b>	-	-	-
		100	-	<b>25102-102130</b>	-	-	-
		150	-	<b>25102-152130</b>	-	-	-
		200	-	<b>25102-202130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>25103-011001</b>	<b>25103-012101</b>	<b>25103-013001</b>	<b>25103-014001</b>	<b>25103-014001</b>
	HPLC Column	30	-	<b>25103-032130</b>	-	-	<b>25103-034630</b>
		50	-	<b>25103-052130</b>	-	-	-
		100	-	<b>25103-102130</b>	<b>25103-103030</b>	-	-
		150	<b>25103-151030</b>	<b>25103-152130</b>	<b>25103-153030</b>	-	<b>25103-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>25105-012101</b>	<b>25105-013001</b>	<b>25105-014001</b>	<b>25105-014001</b>
	HPLC Column	50	-	<b>25105-052130</b>	-	-	-
		100	-	<b>25105-102130</b>	<b>25105-103030</b>	-	<b>25105-104630</b>
		150	-	<b>25105-152130</b>	-	-	<b>25105-154630</b>
		250	-	<b>25105-252130</b>	-	<b>25105-254030</b>	<b>25105-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>

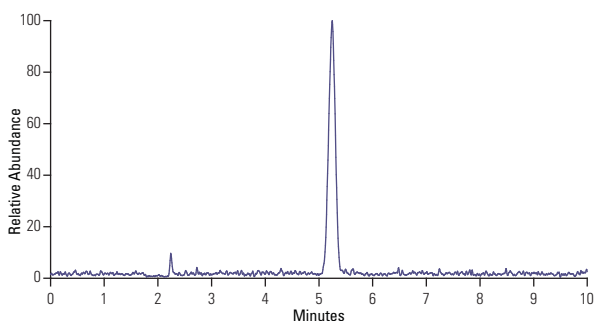
## Hypersil GOLD HILIC

Retains and separates polar analytes that are problematic using reversed-phase columns

- Alternative selectivity to C18
- Improved sensitivity for MS detection
- Alternative to ion-pair or derivatization
- Outstanding peak shape and selectivity



### Urea



#### Hypersil GOLD HILIC 5µm, 150 x 4.6mm

Mobile Phase:	H <sub>2</sub> O/MeCN (10:90) + 0.1% formic acid
Temperature:	30°C
Flow Rate:	0.6mL/min
Injection Volume:	1µL
Detection:	+ESI
Analytes:	1. Urea

### Hypersil GOLD HILIC

Particle Size (µm)	Format	Length (mm)	1.0mm ID	2.1mm ID	3.0mm ID	4.0mm ID	4.6mm ID
1.9	UHPLC Column	50	-	<b>26502-052130</b>	-	-	-
		100	-	<b>26502-102130</b>	-	-	-
		150	-	<b>26502-152130</b>	-	-	-
3	Drop-in Guard (4/pk)	10	<b>26503-011001</b>	<b>26503-012101</b>	<b>26503-013001</b>	<b>26503-014001</b>	<b>26503-014001</b>
	HPLC Column	30	-	<b>26503-032130</b>	-	-	-
		50	-	<b>26503-052130</b>	-	-	-
		100	-	<b>26503-102130</b>	<b>26503-103030</b>	-	<b>26503-104630</b>
		150	<b>26503-151030</b>	<b>26503-152130</b>	<b>26503-153030</b>	-	<b>26503-154630</b>
5	Drop-in Guard (4/pk)	10	-	<b>26505-012101</b>	<b>26505-013001</b>	<b>26505-014001</b>	<b>26505-014001</b>
	HPLC Column	50	-	<b>26505-052130</b>	-	-	<b>26505-054630</b>
		100	-	<b>26505-102130</b>	<b>26505-103030</b>	-	-
		150	-	-	-	-	<b>26505-154630</b>
		250	-	<b>26505-252130</b>	<b>26505-253030</b>	<b>26505-254030</b>	<b>26505-254630</b>
	UNIGUARD Drop-in Guard Cartridge Holder	10	<b>851-00</b>	<b>852-00</b>	<b>852-00</b>	<b>850-00</b>	<b>850-00</b>