Mini Catalog

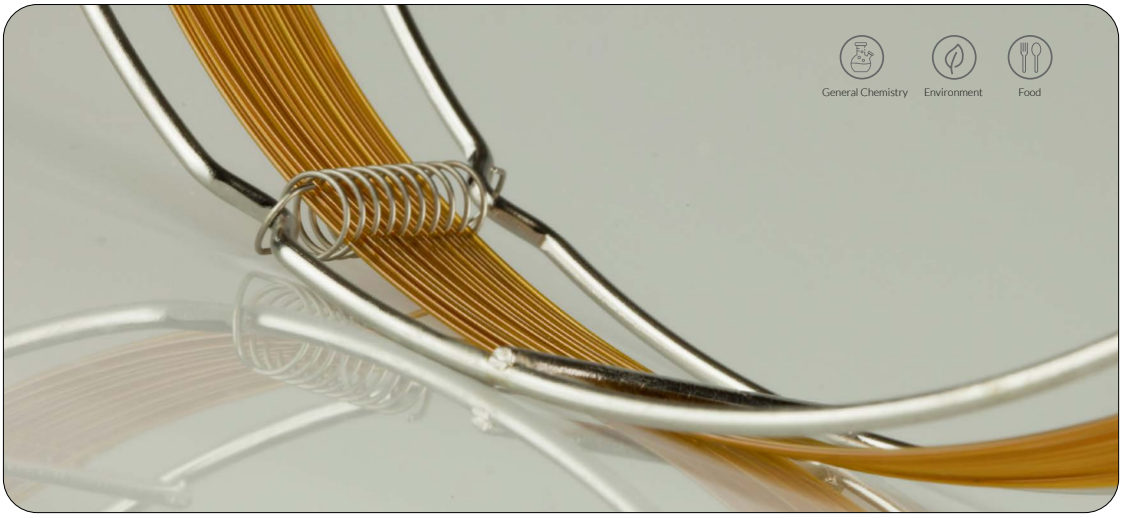
AFP
a Schivo company

GC Columns

Decades of innovation delivering unmatched separation solutions for every application!

SGE GC columns
by TRAJAN

GC Column BP1



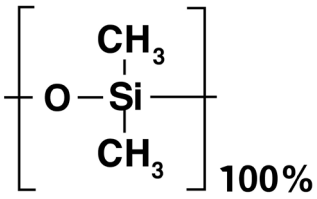
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Classic crosslinked dimethyl polysiloxane technology.
- Excellent general purpose GC column.
- Low bleed.
- Non-polar.
- Suitable for all routine analyses.

Recommended Applications:

- Hydrocarbons.
- Aromatics.
- Pesticides.
- Phenol.
- Herbicides.
- Amines.

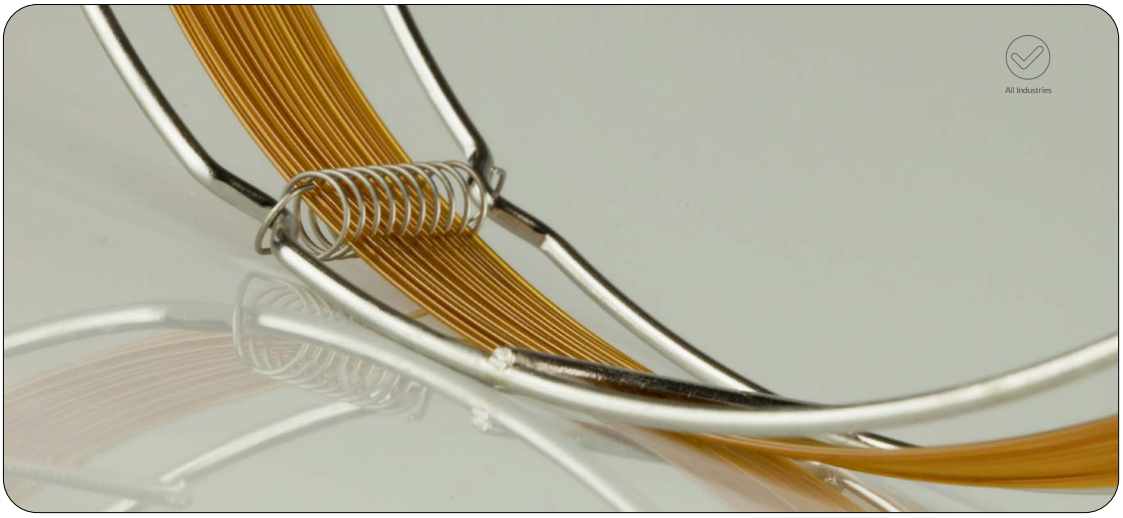


Film Thickness	Operating Temperature
0.1-1.0 µm	-60 °C to 340/360 °C
1.5-3.0 µm	-60 °C to 300/320 °C
4.0-5.0 µm	-60 °C to 280/300 °C

Product Specifications

100 % Dimethyl Polysiloxane. Suitable replacement for: DB-1, DB-Petro, HP-1, HP-1MS, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, VB-1, ZB-1, VF-1ms.

GC Column BPX5



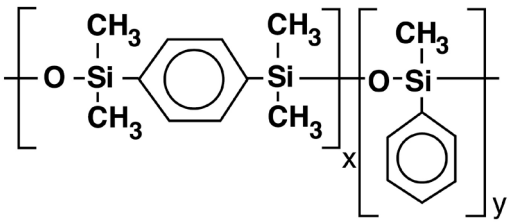
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-toend separation solutions for all applications.

Features and Benefits:

- High temperature.
- General purpose GC column (suitable for over 80% routine GC analyses).
- Very low bleed – ideal for trace analysis.
- Non-polar.
- Extremely inert.
- Ideal for GC-MS.

Recommended Applications:

- Ultra trace analyses.
- Pesticides.
- Herbicides.
- Hydrocarbons.
- Solvents.
- Phenols.
- Amines.

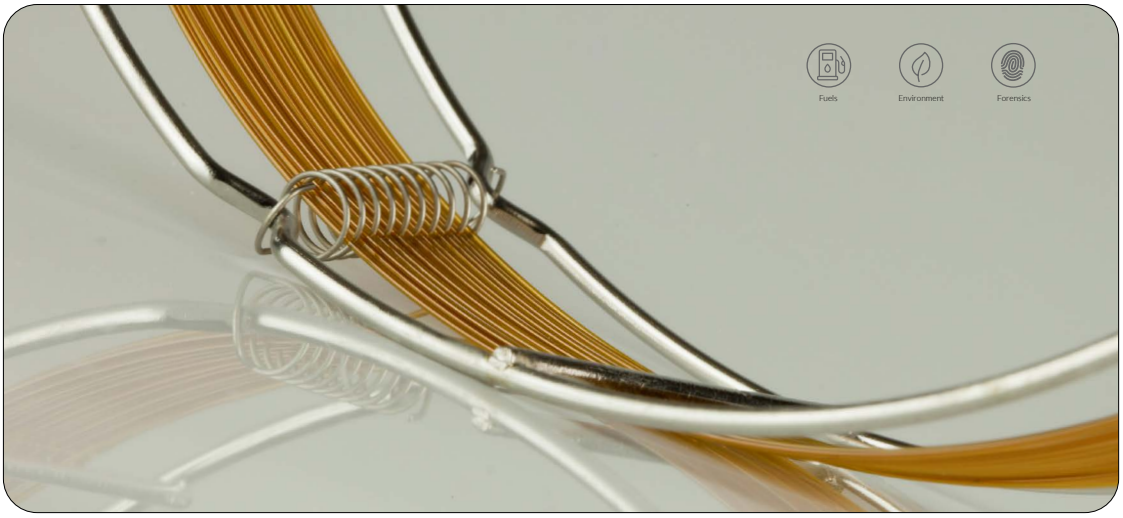


GC Column Dimensions (mm)	Film Thickness	Operating Temperature
0.1, 0.15, 0.18, 0.22, 0.25, 0.32, 0.53	0.1, 0.25, 0.5, 1 µm	10 °C to 330/360 °C

Product Specifications

5% Phenyl / 95% Dimethyl Polysiloxane (equivalent). Suitable replacement for: DB-5, DB-5ms, DB-5.625, XTI-5, Rtx-5ms, Ultra-2, HP-5, HP-5MS, HP5-TA, SPB-5, MDN-5S, CP-Sil8CB, Rxt-Sil 5MS, AT-5ms, VB-5, ZB-5, VF-5ms.

GC Column BP5



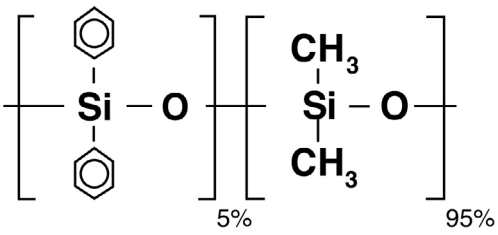
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Excellent general purpose GC column.
- Low bleed.

Recommended Applications:

- General purpose.
- Aromatics.
- Pesticides.
- Herbicides.
- Drugs of abuse.
- Hydrocarbons.
- Solvent impurities.
- PCB congeners.
- Aroclor mixes.
- Essential oils.
- Semivolatiles.

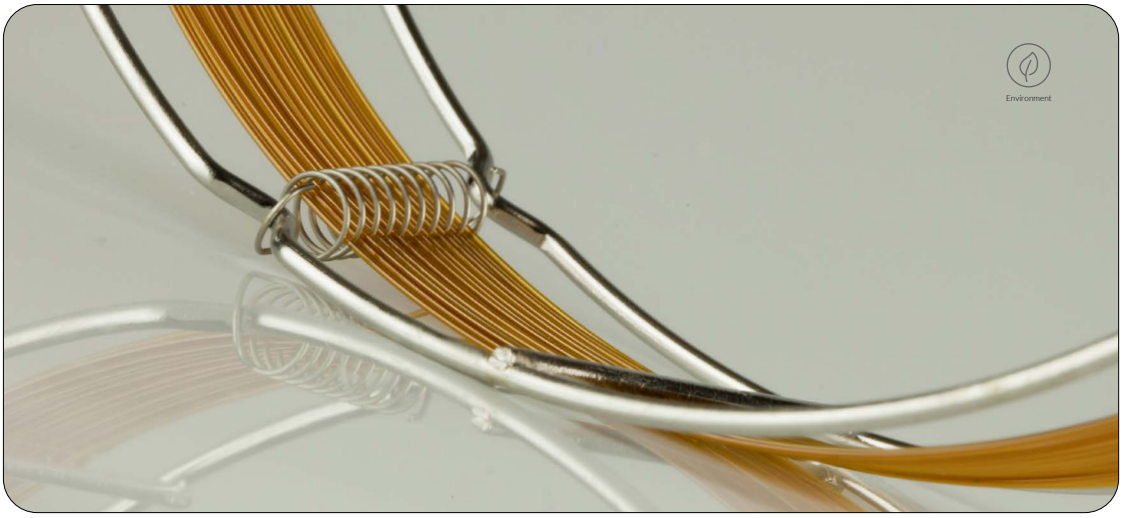


Film Thickness	Operating Temperature
0.25-1.5 µm	-60 °C to 320/340 °C
> 1.5 µm	-60°C to 280/300°C

Product Specifications

5% Phenyl / 95% Dimethyl Polysiloxane. Suitable replacement for: DB-5, Rtx-5, HP-5, Ultra-2, PTE-5, SPB-5, MDN-5, CP-Sil 8CB, VB-5, ZB-5, VF-5ms.

GC Column HT8-PCB



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Preferred column for polychlorinated biphenyl (PCB) compounds.
- Separates PCBs on ortho ring substitution as well as boiling point.
- Ideal for environmental analysis.
- Unique high temperature phase suited for the analysis of persistent organic pollutants (POPs).

Recommended Applications:

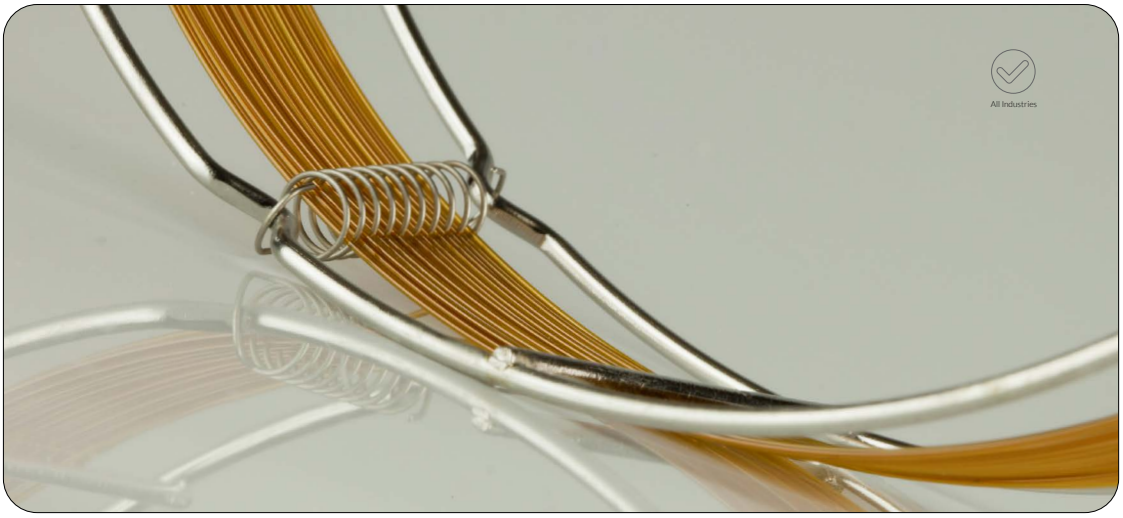
- PCB Aroclor and congener analyses.
- Nitro-substituted aromatics.
- Polynuclear aromatic hydrocarbons (PAHs).
- Pesticides/herbicides.

Film Thickness	Operating Temperature
0.1 µm	-20°C to 360/370°C
0.25 µm	-20°C to 320/350°C

Product Specifications

5% Phenyl / 95% Dimethyl Polysiloxane. 8% Phenyl Polycarborane-siloxane. Suitable replacement for: no equivalents, unique ultra high temperature column with single copolymer phase.

GC Column BP5MS



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-toend separation solutions for all applications.

Features and Benefits:

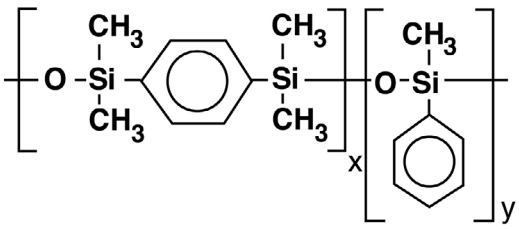
- Perfect for your 5% GC-MS analysis.
- Optimized Silphenylene content for general purpose MS analyses.

Recommended Applications:

- 5% GC-MS analyses.

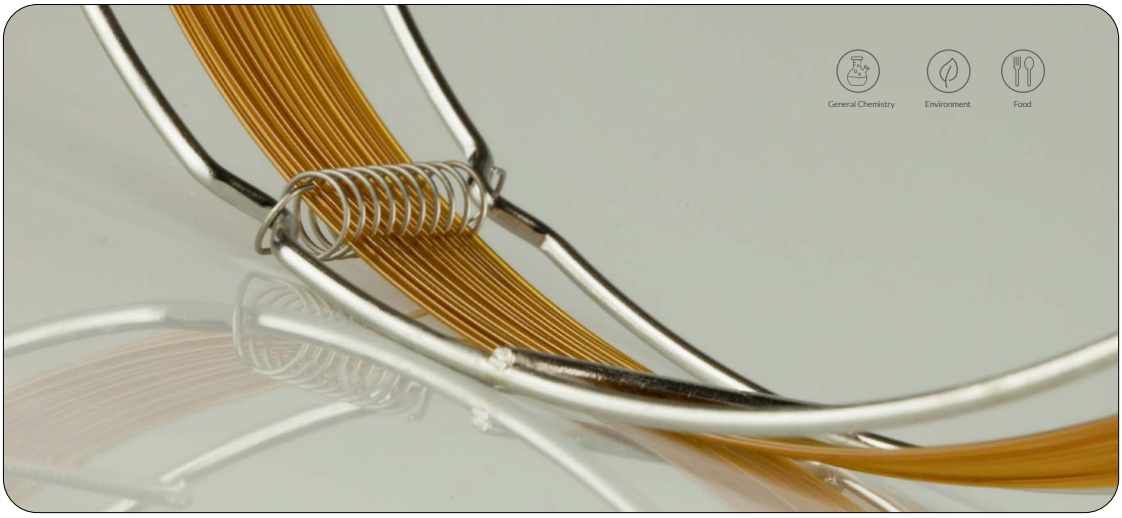
Product Specifications

5% Phenyl Polysilphenylene-siloxane. Suitable replacement for: DB-5ms, ZB-5ms, Rxi-5Sil MS, VF-5ms, CP-Sil 8 CB.



Film Thickness	Operating Temperature
0.1, 0.18, 0.25 µm	-40 °C to 330/350 °C

GC Column BP20 (WAX)



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Industry standard wax column
- Polar phase
- Cross-linked for stability and washing

Recommended Applications:

- Alcohol
- Free acids
- Fatty acid methyl esters (FAMEs)
- Aromatics
- Solvents
- Essential oils

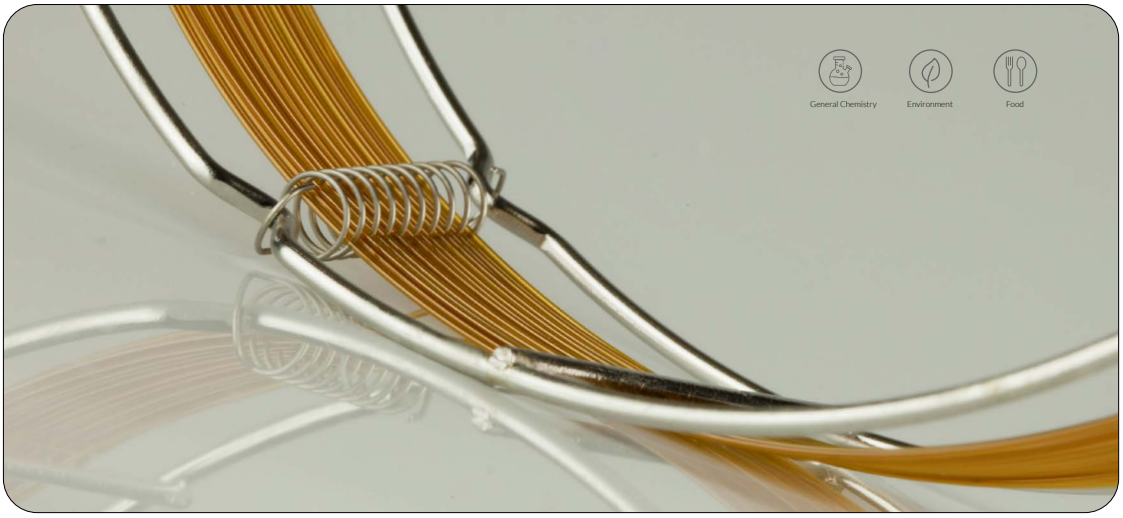
Film Thickness	Operating Temperature
0.1-1.0 µm	20 °C to 260/280 °C
1.0 µm	20 °C to 240/260 °C

Product Specifications

Polyethylene Glycol phase.

Suitable replacement for: Carbowax 20M, CP-Wax 52 CB, DB-WAX, Elite-WAX, HP-20M, HP-INNOWax RH-WAX, Rtx-Wax, Stabilwax, SUPELCOWAX 10, TG-WaxMS, VF-WAXms, ZB-WAX.

GC Column BP21 (FFAP)



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-toend separation solutions for all applications.

Features and Benefits:

- Polar phase.
- Ideal for low molecular weight acids.
- Able to be solvent rinsed.
- Bonded and cross-linked.

Recommended Applications:

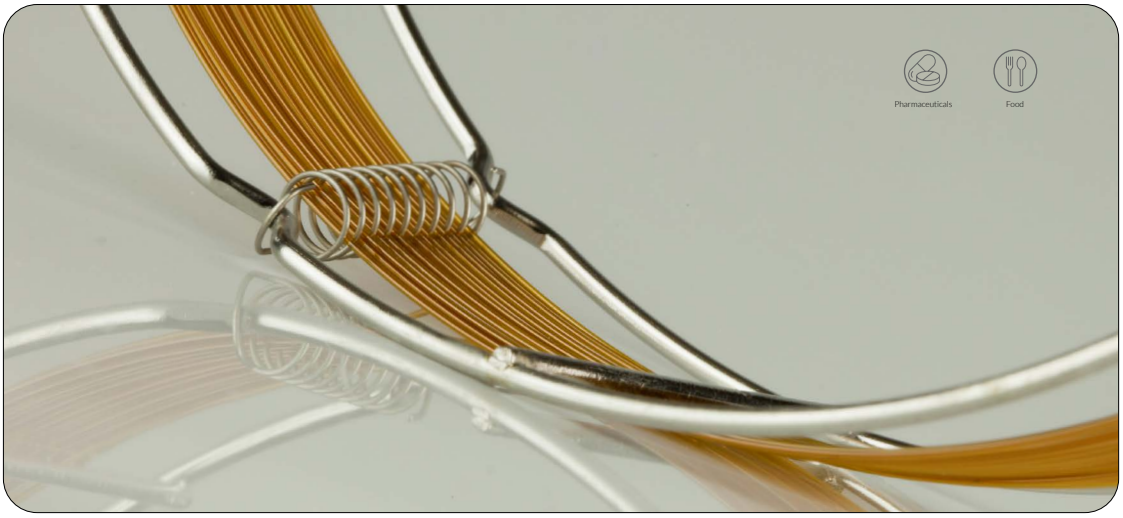
- Volatile free acids.
- FAMEs.
- Alcohols.
- Aldehydes.
- Acrylates.
- Ketones.

Film Thickness	Operating Temperature
0.25, 0.5, 1 µm	35 °C to 240/250 °C

Product Specifications

Nitroterephthalic acid modified PEG. Suitable Replacement for: DB-FFAP, HP-FFAP, Stabilwax-DA, CPWax-58CB.

GC Column BPX70



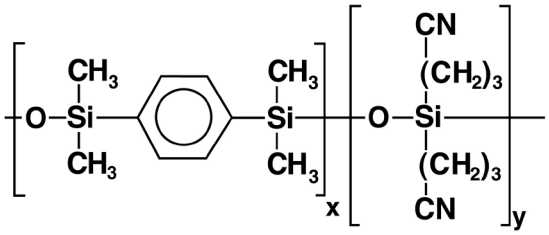
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-toend separation solutions for all applications.

Features and Benefits:

- Industry standard column for FAME analysis.
- Bonded and cross-linked. Able to be solvent rinsed.
- Long operating life.

Recommended Applications:

- Fatty acid methyl esters (FAMEs).
- Carbohydrates.
- Pharmaceuticals.
- GC/MS applications.

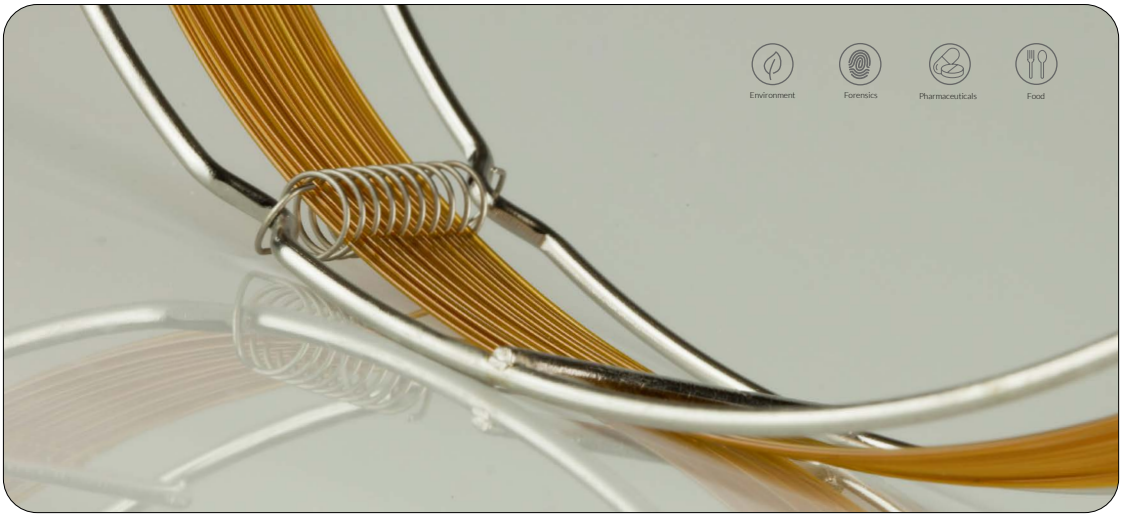


Film Thickness	Temperature
0.2 to 0.5 µm	50 °C to 250/260 °C

Product Specifications

70% Cyanopropyl Polysilphenylene-siloxane. Suitable alternative to: DB-23, Rtx-2330, SP-2330, CP-Sil 88, SP2380, HP-23.

GC Column BPX35



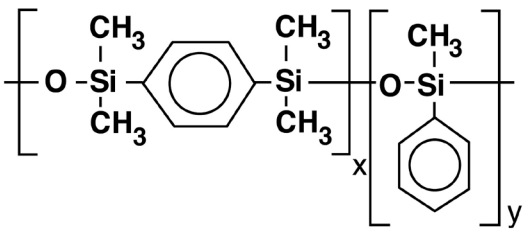
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Mid polarity column. Ideal for confirmational analysis.
- Inert.
- Equivalent to USP phase G42.
- High temperature.
- Very low bleed.
- Pharmaceutical specialist.
- Bonded and cross-linked. Able to be solvent rinsed.

Recommended Applications:

- Environmental analyses.
- Pesticides/herbicides.
- Drugs of abuse.
- Pharmaceuticals.
- Polynuclear aromatic hydrocarbons.
- GC/MS applications.

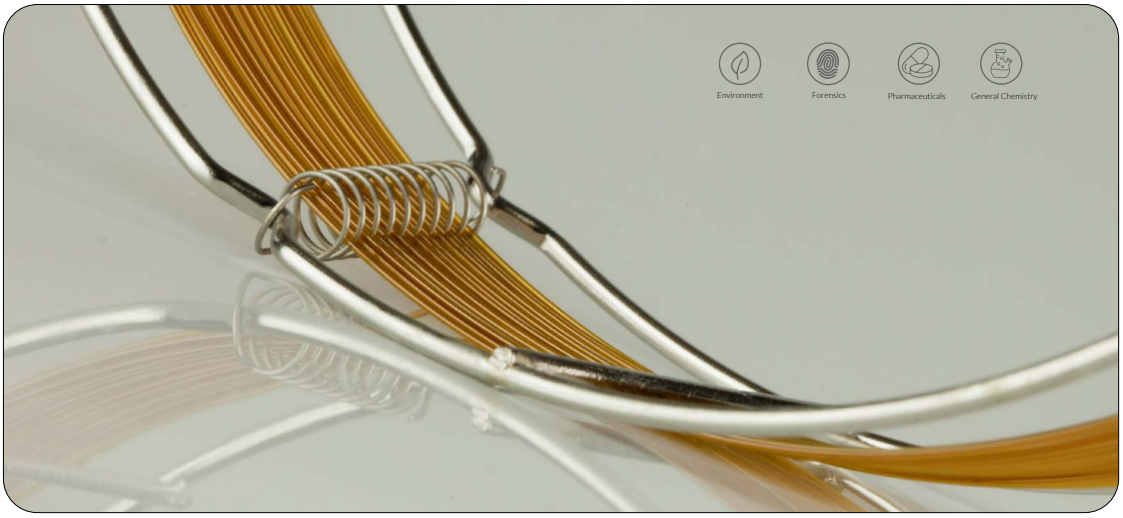


Film Thickness	Operating Temperature
0.1, 0.25, 0.5, 1 µm	10 °C to 330/360 °C

Product Specifications

35% Phenyl Polysilphenylene-siloxane. Suitable Replacement for: DB-35, DB-35ms, Rtx-35, HP-35, HP-35MS, SPB-35, MDN-35.

GC Column BPX50



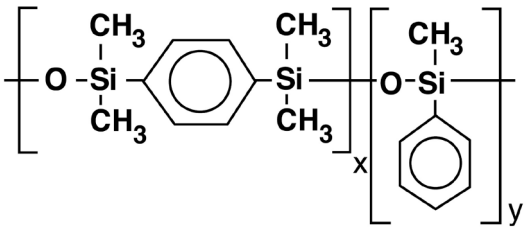
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Ideal for a range of EPA methods and pharmaceutical applications.
- Bonded and cross-linked. Able to be solvent rinsed..

Recommended Applications:

- EPA methods 604, 608, 8060, 8081.
- Triazines/herbicides.
- Drug screening.
- Steroids.
- A variety of pharmaceutical applications GC2D.

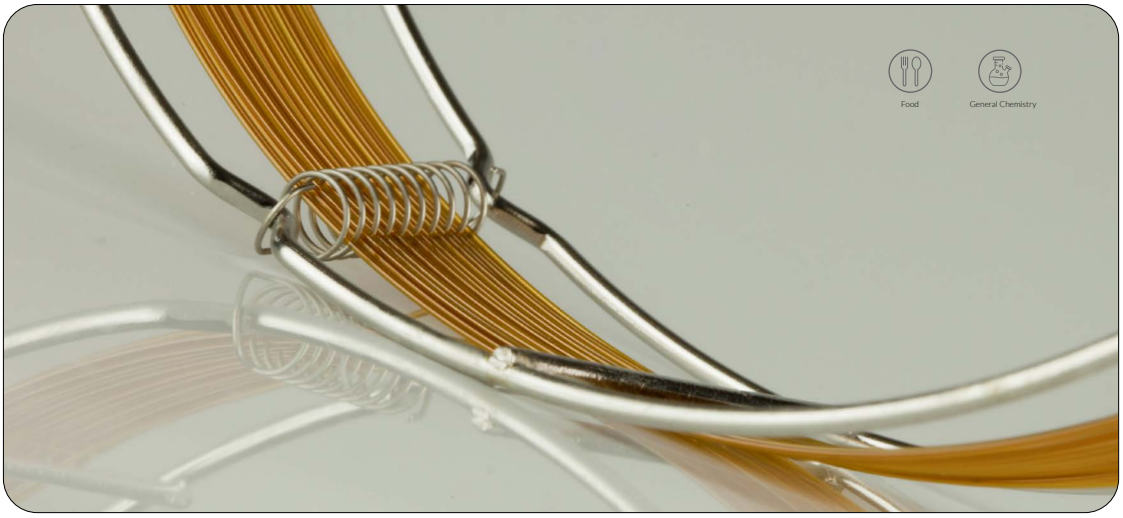


Film Thickness	Operating Temperature
0.1 to 1.0 µm	80 °C to 330/350 °C

Product Specifications

50% Phenyl Polysilphenylene-siloxane. Suitable replacement for: OV-17, SP-2250, DB-17, DB-17ms, DB-17ht, Rtx-50, SPB-50, HP-50+, HP-17.

GC Column SolGel-WAX™



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Bonded polyethylene glycol.
- Very robust high-temperature column.
- Less susceptible to damage by oxygen than conventional wax phases.
- Polar phase.
- Low bleed and inert.
- Bonded and cross-linked. Able to be solvent rinsed.

Recommended Applications:

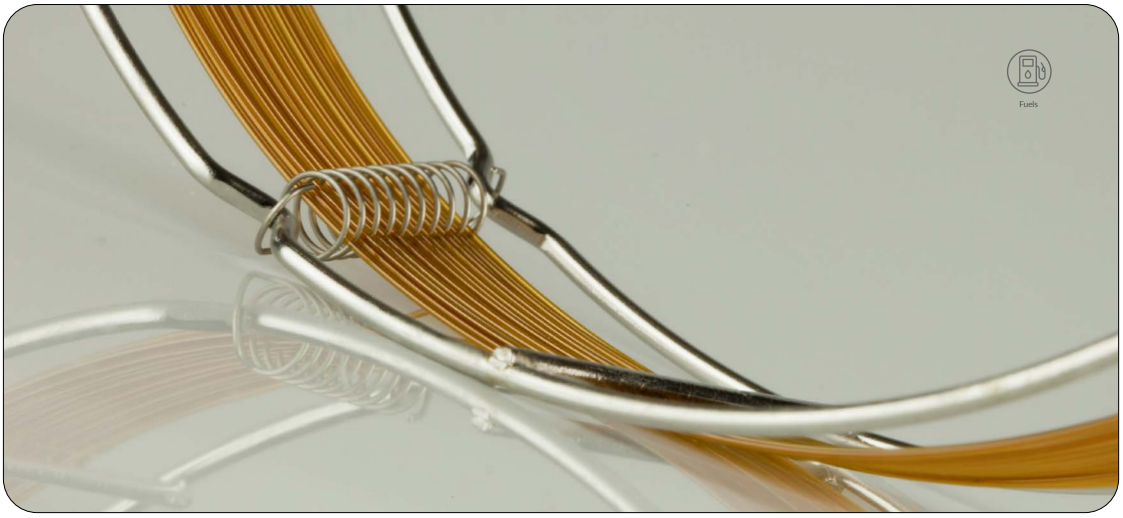
- Highly active compounds.

Film Thickness	Operating Temperature
0.1, 0.25, 0.5, 1 µm	30 °C to 260/280 °C

Product Specifications

Polyethylene Glycol (PEG) in a Sol-Gel matrix.
Suitable replacement for: DB-Wax, Rtx-Wax, Stabilwax, HP20M, HP-Wax, HP-INNOWax, Supelcowax-10, AT-Wax, Nukol, CP, Wax 52CB, VB-WAX, ZB-WAX.

GC Column BPX1



More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-to-end separation solutions for all applications.

Features and Benefits:

- Non-polar column.
- Dimensionally stabilized phase.
- Low bleed.
- Specifically designed for high temperature hydrocarbon analysis.

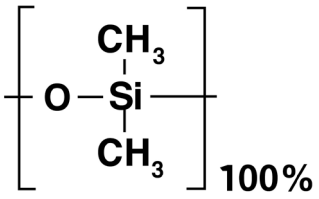
Recommended Applications:

- ASTM methods D2887 and D6532.

Product Specifications

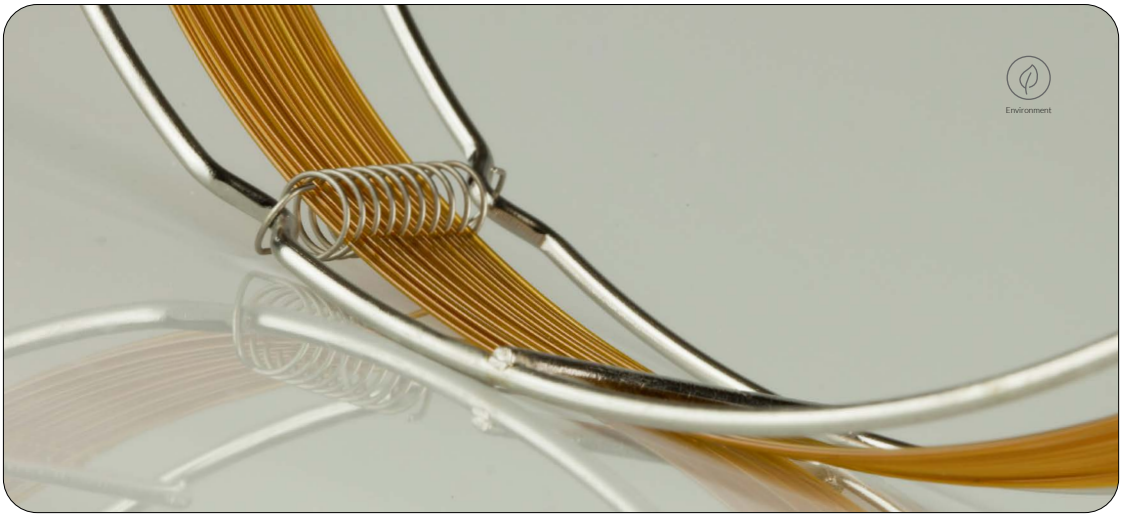
100% Dimethyl Polysiloxane.

Suitable replacement for: DB-2887, DB-HT Sim Dis, HP-1, Petrocol 2887, Petrocol EX2887, Rtx-2887.



Film Thickness	Operating Temperature
Polyimide clad 0.1-0.9 µm	30 °C to 260/280 °C
2.65 µm	30°C to 370°C

GC Column BP624



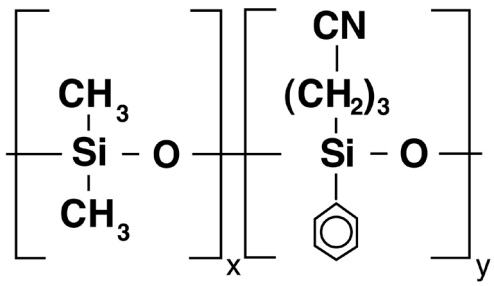
More than five decades of innovative phase technologies and unique fused silica production capabilities, together provide end-toend separation solutions for all applications.

Features and Benefits:

- US EPA 624 optimized column.
- Designed for volatiles analysis.
- Able to be solvent rinsed.
- Bonded and cross-linked.

Recommended Applications:

- EPA method 624, USP G43 methods, SW-846 and 8240/8260 methods.
- Drinking water volatiles.
- Chlorinated hydrocarbons.
- Solvents.



Film Thickness	Operating Temperature
1.2, 1.4, 1.8, 3 µm	0 °C to 230/240 °C

Product Specifications

Cyanopropylphenyl Polysiloxane. Suitable replacement for: DB-624, OV-624, AT-624, HP-VOC, CP-Select624CB, 007-624, Rtx-Volatiles, VOCOL, ZB-624.

Product List

Description	Part No.
GC Columns - BP1	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BP1 GC Capillary Column	CH-100000
0.25 mm ID x 1 µm Film Thickness x 30 m Length BP1 GC Capillary Column	CH-100001
0.32 mm ID x 1 µm Film Thickness x 25 m Length BP1 GC Capillary Column	CH-100002
GC Columns - BPX5	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BPX5 GC Capillary Column	CH-100003
GC Columns - BP5	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BP5 GC Capillary Column	CH-100004
GC Columns - HT8-PCB	
0.25 mm ID x 60 m Length HT8-PCB GC Capillary Column	CH-100005
GC Columns - BP5MS	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BP5MS GC Capillary Column	CH-100006
GC Columns - BP20	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BP20 GC Capillary Column	CH-100007
GC Columns - BP21	
0.32 mm ID x 0.25 µm Film Thickness x 60 m Length BP21 GC Capillary Column	CH-100008
GC Columns - BPX70	
0.32 mm ID x 0.25 µm Film Thickness x 50 m Length BPX70 GC Capillary Column	CH-100009
GC Columns - BPX35	
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BPX35 GC Capillary Column	CH-100010
GC Columns - BPX50	
0.25 mm ID x 0.25 µm Film Thickness x 15 m Length BPX50 GC Capillary Column	CH-100011
0.25 mm ID x 0.25 µm Film Thickness x 30 m Length BPX50 GC Capillary Column	CH-100012
GC Columns - SolGel-WAX	
0.53 mm ID x 1.0 µm Film Thickness x 30 m Length SolGel-WAX GC Capillary Column	CH-100013
GC Columns - BPX1	
0.53 mm ID x 0.9 µm Film Thickness x 10 m Length BPX1 simulated distillation GC Capillary Column	CH-100014
GC Columns - BP624	
0.53 mm ID x 3.0 µm Film Thickness x 30 m Length BP624 GC Capillary Column	CH-100015
0.53 mm ID x 3.0 µm Film Thickness x 60 m Length BP624 GC Capillary Column	CH-100016
0.25 mm ID x 1.4 µm Film Thickness x 30 m Length BP624 GC Capillary Column	CH-100017

AFP a Schivo company

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