GC Columns



Advanced GC Column Technology.

SGE offers a comprehensive range of *forte* GC capillary columns for almost any chromatographic application, providing the best possible combination of Performance, Robustness, Reproducibility, Low Bleed and Inertness. Advanced technology ensures brilliant results every time.

forte GC capillary columns are now available with <u>SilGuard guard columns</u> for extended analytical column lifetime.

Phase	Column	Description
100% Dimethyl Polysiloxane		
	<u>forte BP1</u> forte SolGel-1ms	An industry standard non-polar phase suitable for all routine analyses. Robust high temperature non-polar phase for mass spectrometry applications
	<u>forte BPX1</u>	100% polydimethylsiloxane non-polar columns for Simulated Distillation in the petroleum industry.
	forte BP1 PONA	A non-polar phase for PONA analysis.
5% Phenyl Methylpolysiloxane		
	<u>forte BP5</u>	A general purpose phase with excellent high temperature characteristics. Popular columns used for a wide variety of applications.
5% Phenyl Polysilphenylene-siloxane		
	forte BPX5	MS-Premium, low bleed columns with a maximum temperature up to 370°C. Suitable for trace analysis of pesticides, drugs, hydrocarbons and phenols. The BPX5 phase has been designed for robustness and is suitable for over 80% of all routine analyses performed by chromatographers.
5% Phenyl Polycarborane-siloxane		
	<u>forte HT5</u>	Unique high temperature phase suited for simulated distillation and other petroleum applications. This column is the highest temperature column available with a maximum temperature up to 480°C.
8% Phenyl Polycarborane-siloxane		
	<u>forte HT8</u>	Unique high temperature phase suited for the analysis of PolyChlorinated Biphenyl (PCB) congeners. The unique polarity of this phase gives excellent separation of PCB congeners.
35% Phenyl Polysilphenylene-siloxane		
	<u>forte BPX35</u>	MS-Premium, low bleed columns with a maximum temperature up to 370°C. Especially suited for trace analysis of herbicides and aromatic columns.
	forte BPX608	Maximum temperature 370°C. Optimized for ECD. Ideal for the analysis of organochlorine herbicides and pesticides.

50% Phenyl Polysilphenylene-siloxane			
<u>forte BPX50</u>	MS-Premium, low bleed columns with a maximum temperature up to 370°C. Suited for a range of EPA methods and pharmaceutical applications.		
70% Cyanopropyl Polysilphenylene-siloxane			
<u>forte BPX70</u>	MS-Premium, low bleed columns with a maximum temperature up to 260°C. The polarity has been designed for Fatty Acid Methyl ester (FAME) analysis.		
90% Cyanopropyl Polysilphenylene-siloxane			
<u>forte BPX90</u>	MS-Premium, low bleed columns with a maximum temperature up to 280°C. Extremely polar phase for the fast separation of aromatics, perfumes, petrochemicals and other compounds that are difficult to resolve using conventional columns.		
Polyethylene Glycol (PEG)			
forte SolGel-WAX	Robust, high temperature polar WAX phase. Less susceptible to damage by oxygen than conventional wax columns.		
<u>forte BP20 (Wax)</u>	A very polar phase suited to the analysis of alcohols, ketones and aldehydes. Also offers excellent separation of aromatic isomers such as the xylene isomers.		
Treated Polyethylene Glycol (PEG)			
<u>forte BP21 (FFAP)</u>	A very polar Nitroterephthalic acid modified PEG phase suited to the analysis of free fatty acids.		
14% Cyanoprovlphenyl Polysiloxane			
<i>forte</i> BP10 (1701)	This phase has been selected with a polarity suited for the separation of organochlorine pesticides listed in the EPA 608 and 8081 methods.		
50% Cyanopropylphenyl Polysiloxane			
<u>forte BP225</u>	Useful for the analysis of Fatty Acid Methyl esters (FAMEs), carbohydrates, and neutral sterols.		
Cyanopropylphenyl Polysiloxane (Volatiles)			
<u>forte</u> BPX-VOLATILI	ES A polar phase used for EPA volatile organics analysis (EPA 624, SW-846 8240/8260), alcohol analysis and for USP G43. 290/300°C maximum temperature.		
<u>forte BP624</u>	A polar phase used for EPA volatile organics analysis (EPA 624, SW-846 8240/8260), alcohol analysis and for USP G43.		
Permethylated Beta Cyclodextrin (Chiral)			
forte CYDEX-B	Chiral columns for the separation of enatiomeric compounds found in natural products.		

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