

FT GC Columns

GC Capillary Column Phase Cross Reference

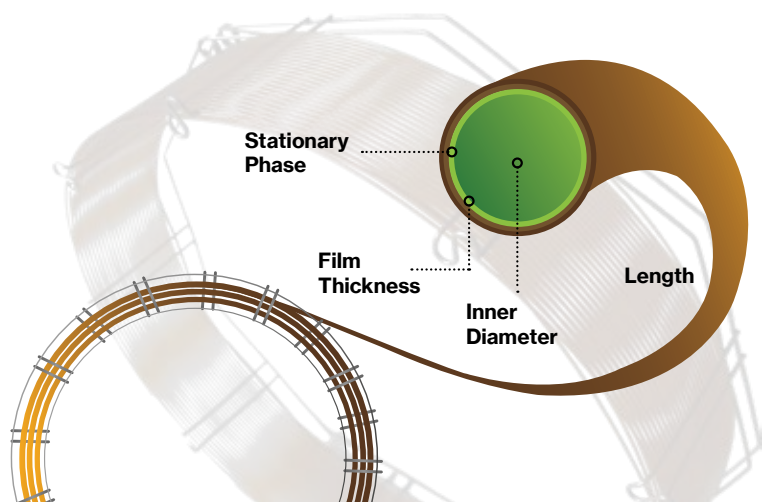
Use the chart to cross-reference manufacturers' stationary phases with USP method designations and their Force Tech equivalent columns. Please note that slight variations in selectivity may occur between different manufacturers' columns.

Organized by polarity, the Force Tech GC Specification reference guide provides essential information on phase chemistry and suggested applications to help you select the ideal stationary phase for your method.

For additional support, contact our team at info@forcscientific.com.

Low Polarity	FT-1, FT-1MS, FT-1, FT-1MS, FT-1HT, FT-5HPH, FT-PS264, FT-XMLB, FT-5, FT-SE52, FT-SE54, FT-5HT, FT-5MS, FT-5MS MAX, FT-5MS-UI, FT-SE54 HT
Mid Polarity	FT-13, FT-1301, FT-20, FT-200, FT-225, FT-35, FT-624, FT-PLUS, FT-PLUS10, FT-PLUS25, FT-17, FT-1701, FT-35MS, FT-624MS, FT-17HT, FT-1701HT, FT-35HT, FT-225MS, FT-17MS, FT-210
High Polarity	FT-23, FT-225, FT-WAX BA, FT-AQUAWAX, FT-WAX S, FT-WAX, FT-WAX MS, FT-WAX HT, FT-10, FT-50, FT-70, FT-PLUS 75, FT-PLUS 90, FT-TCEP, FT-17MS, FT-FFAP, FT-FFAP HT

NOT ALL CHEMISTRIES ARE INCLUDED, PLEASE SEE TABLES FOR COMPLETE RANGE OF FORCE TECH GC CAPILLARY COLUMN STATIONARY PHASE



Phase	Functional group	Max. Temp.*	Crossbond	EPA Methods	Equivalent To	USP Reference
FT-1	100% Dimethylpolysiloxane	350 °C	Yes	504.1, 505, 551, 606, 612, 8141A/B	DB™-1, Rtx™-1, SPB™-1, SPB-Sulfur, SP™- 2100, HP™-1, HP™-101, ULTRA™-1, BP™-1, CP-Sil™- 5-CB, 007™-1, OV™-1, SE™-30, DC™-200, RSL™-150, RSL-160, PE-1, ZB-1	G1, G2, G9, G38
FT-1 HT	100% Dimethylpolysiloxane - High Temperature	400 °C	Yes	-	007-1, CP-Sil 5CB, DBTM-1, DB-1ht, HPTM ¹ , HP-101,OVTM-1,RSLTM-150, RSL-160, RtxTM-1, SE-30TM, SPBTM-1, SPB-Sulfur,ULTRATM-1, SP-2100, BP-1, DC-200, PE-1, ZB-1	G1, G2, G9, G38
FT-1 MS	100% Dimethylpolysiloxane - low Bleeding	350 °C	Yes	504.1, 505, 606	DB-1ms, HP-1ms, Rtx-1ms, CP-Sil 5 CB Low Bleed/MS, MDN-1	G1, G2, G9, G38
HI-1 PONA	100% Dimethylpolysiloxane - Optimized for hydrocarbon analysis	350 °C	Yes	ASTM D6730-01	DB-Petro, HP-Pona, Rtx-1 Pona, Petrocol	G1, G2, G9, G38
FT-JXR	100% Methyl Polysiloxane	350 °C	Yes		no equivalent on the market	G1, G2, G9, G38
FT-SE30	100% Methyl Polysiloxane	350 °C	Yes	504.1, 505, 606, 8141A	SE30	G1, G2, G9, G38
FT-PS255	1% Vinyl, 99% Methyl Polysiloxane (highly suitable for high film thickness columns when analyzing solvents, alcohols, and volatiles)	350 °C	Yes		no equivalent on the market	-
FT-5	5% Phenyl, 95% Methyl Polysiloxane	350 °C	Yes	506, 611, 604, 607, 608, 8015, 8041, 8082, 8091, etc.	DB-5, HP-5, AT-5, ZB-5, 007-5, Rtx-5, BP-5, SPB-5, CP Sil 8 CB	G27, G36, G41
FT-5 HT	5% Phenyl, 95% Methyl Polysiloxane -High Temperature	400 °C	Yes		DB-5 ht	G27, G36, G41
FT-5 MS	5% Phenyl, 95% Methyl Polysiloxane -low bleeding	360 °C	Yes	513, 528, 552, 610, 613, 1625, 1653, 8015B, 8091, 8100, 8141A/B, 8280A	DB-5 ms (UI), HP-5 ms, AT-5 ms, ZB-5 ms, 007-5 ms, Rtx-5 ms, BPX-5, Equity-5	G27, G36, G41
FT-5MS MAX	5% Phenyl, 95% Methyl Polysiloxane - low bleeding (Extreme)	360 °C	Yes	513, 528, 552, 610, 613, 1625, 1653, 8015B, 8091, 8100, 8141A/B, 8280A		G27, G36, G42
FT-5MS-UI	Silphenylene Methyl Polysiloxane - low bleeding (Extreme)	360 °C	Yes	515, 521, 529, 552, 604, 610, 625,1613, 1625, etc.	DB-5 ms (UI), Rtx-5 ms Sil, SLB-5 ms new column	G27, G36, G41
FT-SE52	5% Phenyl, 95% Methyl Polysiloxane (General purpose column)	350 °C	Yes			USP: G27, G36, G41
FT-SE54	5% Phenyl, 1% Vinyl, 94% Methyl Polysiloxane	350 °C	Yes		SE54	USP: G27, G36, G41
FT-SE54 HT	5% Phenyl, 1% Vinyl, 94% Methyl Polysiloxane - High Temperature	400 °C	Yes		high temperature unique column	-
FT-PS264	5.8% Phenyl, 0.2% Vinyl, 94% Methyl Polysiloxane	350 °C	Yes		no equivalent on the market	-
FT-8HT	Proprietary High temperature phase	400 °C	Yes			-
FT-BIO DIESEL	Proprietary Phase developed for Biodiesel	370°C (UNI EN ISO 14105)	Yes	UNI EN ISO 14105 (ASTM 6584), UNI EN ISO 14103		
FT-DAI 1	Proprietary Phase developed for Direct Aqueous Injections	320 °C	Yes			-
FT-OVW	Proprietary Phase developed for Waxes Analysis in Edible Oils	350 °C	Yes			-

Phase	Functional group	Max. Temp.*	Crossbond	EPA Methods	Equivalent To	USP Reference
FT-XMLB	Proprietary Phase developed for semi-volatiles environmental - low bleeding	360 °C	Yes			-
FT-624	6% Cyanopropylphenyl, 94% Methyl Polysiloxane	280 °C	Yes	501.3, 502.1, 502.2, 601, 624, 1624, 8020, 8021, etc.	DB-624, HP-624, AT-624, ZB-624, 007-624, Rtx-624, Vocol, SPB-624, VF-624 ms	G43, 467
FT-624 MS	6% Cyanopropylphenyl, 94% Methyl Polysiloxane -low bleeding	280 °C	Yes	8260B	DB-624, HP-624, AT-624, ZB-624, 007-624, Rtx-624, Vocol, SPB-624, VF-624 ms	G43, 467
FT-1301	6% Cyanopropylphenyl, 94% Methyl Polysiloxane	280 °C	Yes	612, 8260B	BP624, DB-1301, Rtx -1301, Rtx -624, HP-1301,HP-624, DB-624, 007-624, 007-1301, SPB-1301, SPB-624, ZB-624	G43, 467
FT-13	13% Phenyl, 87% Dimethylpolysiloxane	350 °C	Yes	601, 602, 624	CP Sil 13 CB	
FT-ALC 1	Proprietary Phase developed for blood alcohol analysis	280 °C	Yes		DB-ALC 1&2, Rtx-BAC 1&2	-
FT-DAI 2	Proprietary Phase developed for Direct Aqueous Injections	320 °C	Yes		unique columns	-
FT-PAH	Proprietary Phase developed for polycyclic aromatic hydrocarbons analysis	350 °C	Yes	610, 8100	unique column	-
FT-POF 1	proprietary phases for pesticides, herbicides and nsecticides	280 °C	Yes	622	new columns MR1 (MEGA-POF 1)	-
FT-VOC 1	proprietary phases for Volatile Organic Compounds	300 °C	Yes		new columns	-
FT-VOC 2	proprietary phases for Volatile Organic Compounds	320 °C	Yes		new columns	-
FT-35	35% Phenyl, 65% Methyl Polysiloxane	340°C	Stabilized	507, 508, 513, 551.1, 615, 622, etc.	DB-35, DB-35ms, Rtx-35,BPX35, SPB- 35, SPB-608, tHP-35, 007-11, OV-11, RSL-300, PE-35, Sup-Herb, ZB-35	G28, G32, G42
FT-35MS	35% Phenyl, 65% Methyl Polysiloxane -low bleeding	340 °C	Stabilized	507, 508, 552, 614, 615, 622, etc.	DB-35 ms, BPX-35, BPX-608, MR2, Rtx-35 Sil ms	G28, G32, G42
FT-PLUS 10	Copolymer 10% Polyethylene glycol (PEG), 90% Methyl Polysiloxane	270 °C	Yes		Agilent DX columns series	Customize
FT-PLUS 25	Copolymer 25% Polyethylene glycol (PEG), 75% Methyl Polysiloxane	270 °C	Yes		Agilent DX columns series	Customize
FT-17	50% Phenyl, 50% Methyl polysiloxane	340 °C	Stabilized	604, 608, 619, 8060, 8081	DB-17, DB-608, HP-17, AT-50, ZB-50, 007-17, Rtx-17, BPX-50, SPB-50, CP Sil 24 CB	G3, G17
FT-17HT	50% Phenyl, 50% Methyl polysiloxane – high temperature	370 °C	Stabilized	604, 608, 619, 8060, 8081	high temperature column DB-17 ht	G3, G17
FT-17MS	50% Phenyl, 50% Methyl polysiloxane – low bleed	340 °C	Stabilized	505, 610, 614, 619, 8040, 8041	DB-17 ms, Rtx-17 Sil ms	G3, G17
FT-225	25% Cyanopropyl, 25% Phenyl, 50% Methyl polysiloxane	260 °C	Stabilized	8095	DB-225, HP-225, AT-225, 007-225, Rtx-225, BP-225, CP Sil 43 CB	G7, G19
FT-225MS	25% Cyanopropyl, 25% Phenyl, 50% Methyl polysiloxane – low bleed	240 °C	Stabilized	8095	unique column	G7, G19
FT-200	Trifluoropropyl Methyl Polysiloxane	250 °C	Yes	551, 612. 625, 8095, etc.	DB-200, DB-210, AT-210 007-210, Rtx-200, SP-2401, VF-200 ms	G6
FT-PLUS	copolymer polyethylene glycol + methyl polysiloxane	270 °C	Yes	505	Agilent DX columns series	-
FT-10	100% Cyanopropyl polysiloxane	260 °C	Stabilized	613, 1613, 8290B	HP-88, AT-Silar, Silar 10 Rtx-2560, SP-2560 BPX-70, CP Sil 88	G5, G8, G48

Phase	Functional group	Max. Temp.*	Crossbond	EPA Methods	Equivalent To	USP Reference
FT-50	50% Cyanopropyl, 50% Methyl Polysiloxane	260 °C	Stabilized		DB-23, Silar 5, Rtx-2330, SP-2330	G8
FT-65 HT	65% Phenyl, 35% Methyl Polysiloxane – high temperature	360 °C	Yes			-
FT-FFAP	Acid modified Polyethylene Glycol (PEG)	250 °C	Yes	8032	DB-FFAP, AT-1000, 007-FFAP, Stabilwax-DA, BP-21, SPB-1000 Nukol, CP Wax 58 CB	G14, G15, G16, G25, G35, G39
FT-FFAP HT	Acid modified Polyethylene Glycol (PEG) – extended temperature range	260 °C	Yes	8032	high temperature column DB-FFAP ht	G14, G15, G16, G25, G35, G39
FT-POF 2	Proprietary Phase developed for pesticides	320 °C	Yes	622	MR1 (MEGA-POF 1)	New Columns
FT-PLUS 75	Copolymer 75% Polyethylene glycol (PEG), 25% Methyl Polysiloxane	270 °C	Yes		Agilent DX columns series	Customize
FT-PLUS 90	Copolymer 90% Polyethylene glycol (PEG), 10% Methyl Polysiloxane	270 °C	Yes		Agilent DX columns series	Customize
FT-TCEP	1,2,3-tris-(2-cyanoethoxy) propane	150 °C	Stabilized		CP-TCEP, SPB-TCEP, SH-TCEP	-
FT-WAX	Polyethylene Glycol (PEG)	250 °C	Yes	602, 603, 619, 8015C USP 467, etc.	DB-Wax, HP-Wax, InnoWax AT-Wax, ZB-Wax, 007-CW, Rtx-Wax, BP-20, CP Wax 52 CB	G14, G15, G16, G20, G39
FT-WAX HT	Polyethylene Glycol (PEG) - High Temperature	300 °C	Yes		high temperature unique column	G14, G15, G16, G20, G39
FT-WAX MS	Polyethylene Glycol (PEG) - low bleeding	270 °C	Yes	602, 603, 619, 8015C, 8121, etc.	Stabilwax, ZB-Wax Plus, InnoWax, VF-Wax ms	G14, G15, G16
FT-WAX UI	Polyethylene Glycol (PEG) – ultra inert & water resistant	270 °C	Yes	602, 603, 619, 8015C, 8121, etc.		EPA: 602, 603, 619, 8015C USP: G14, G15, G16, 467 (OVIs)
FT-ALC 2	Proprietary Phase developed for blood alcohol analysis	280 °C	Yes		DB-ALC 1&2, Rtx-BAC 1&2	-
FT-LAP	Proprietary Phase developed for Lipid Analysis Phase, Saturated and Unsaturated Triglycerides, Sterols and Lipid analysis	370 °C	Yes		Unique Column	-
HI-PAH 2	Proprietary Phase developed for polycyclic aromatic hydrocarbons analysis	360 °C	Yes	610, 8100	Unique Column	-
FT-SOLVE 1	Proprietary Phase developed for complex solvent mixture analysis	140 °C	Stabilized		unique columns Tris(2-carboxyethyl)phosphine	-
FT-SOLVE 2	Proprietary Phase developed for aromatics and oxygenates in gasoline	140 °C	Stabilized		unique columns Tris(2-carboxyethyl)phosphine	-

Diacetyl TBS Gamma Cyclodextrin-Based FT-DEX Columns

Our FT-DEX columns provide exceptional chiral separation, utilizing diacetyl and cyclodextrin derivatives. 2-Methyl-Butyric Acid, 3-Propyloxirane-2-carboxylic acid methyl ester, trans-1,4-Cyclohexanedimethano, acetylated, Alpha-Pinene, Linalool, Menthol, Beta-Citronellol, Beta-Pinene, Bornyl and iso-Bornyl Acetate, Camphor, Carvone, Cineol, Delta-Lactones, Fastrime Essential Oil, Gamma-Lactones, Hexobarbital, Isoborneols, Isoborneol, Lavandulol, Lavender Oil, Linalool and Linalyl Esters, Linalool and Linalool Oxide, Menthols, Nerolidol, Propylene Carbonate, Essential Oils (Quantitative Profiling), Chiral Column Test Report., showcasing hundreds of chiral compounds separated by these models: FT-DEX BETA-03, FT-DEX BETA-SE, FT-DEX DAC-BETA, FT-DEX DAC-GAMMA, FT-DEX DET-BETA, FT-DEX DET-GAMMA, FT-DEX DMP-BETA, FT-DEX DMT-BETA, FT-DEX G-1, FT-DEX G-3.

*The maximum temperature may change according to the phase thickness – please check QC certificate supplied with the column

Our Force Tech columns are our premium range of individually tested GC capillary columns. The FT range is manufactured under identical conditions using the same high-quality polyimide-coated fused silica and immobilized stationary phases. They are supplied mounted on a rugged cage, with a ceramic column cutter and QC certificate, and come with our no-quibble guarantee.

All Force tech columns are presented with their USP designations to help you easily make a selection. Questions on stationary phase selection? Call Technical Service; we are ready to assist you with your application questions.