Polyethylene Glycol (PEG) Phases

GS-Tek offers three types of PEG columns: GsBP-INOWAX and its low bleed family GsBP-Inowax-MS, GsBP-FFAP, and GsBP-CarboWax 20M based on the characteristics of the PEG stationary phases, for wide ranges of applications across all over industries and researches

GsBP-Inowax and Low Bleed GsBP-Inowax-MS

General columns for most popular applications, particularly chemical, pharmaceutical, agriculture, food, drinking, oil, cosmetics, flavor and fragrance, and others; ideal column for new method development

- Polyethylene Glycol, crosslinked and bonded
- Solvent rinseable with virtually all solvents, highest temperature limit
- Exceptionally low column bleed, inert and near neutral surface, high plate numbers
- Wide range of column dimensions and stationary phase film thicknesses for GC and GC/MS
- Polar Equivalent or close to USP G14, G15, G16, G20, G39

Similar Phases: DB-Wax,DB-WAXetr, DB-WaxFF, HP-Innowax, Supelco-wax 10, Omega-Wax, Rtx-Wax, Rxt-Stabilwax, CP-Wax 52 CB, BP-20, ZB-Wax, AT-Wax, Optima-wax

Typical Applications

Acrylamide (Potato Chip Extract)	EPA 602 Aromatics	Glycols, Glycols I	Peppermint Oil
Alcohols II and III	EPA-609 NitroAromatics	Hexamethylenediamine	Perfume
Aldehydes and Acids	Esters III	Impurities in Ethylbenzene	Phenols III
Amines (low MW)	Ethylene Oxide	Impurities in Mixed Xylenes	Polyunsaturated Fatty Acid Methyl Esters
Amines/Alcohols/Chlorides	FAME Standard I	Impurities in p-Xylene-ASTM D3798	Rapeseed oil
Aromatics Analysis: ASTM D16 Analytes	FAMEs (Cocoa Butter)	Impurities in Styrene	Rapid Analysis of Water in Organic Solvents
Aromatics II	Fast Styrene Analysis	Industrial Solvent	Solvents I, II
Blood Alcohol	Flavor Volatiles	Lavender Oil Spiked with Camphor	Spearmint oil
Bourbon	Formaldehyde Underivatized	Monomers in Latex Paint by Headspace	Strawberry Syrup
Branched alcohols	Fragrance Reference Standard II	Mushroom Aroma (Synthetic)	Sulfur and Selenium in Garlic by Headspace
BTEX	Frangnace Allergens	Nitrosamines	Tramanian Lavander Oil
Chlorinated Isooctane	Free Fatty Acids	Nutmeg Oil	Volatile Organics
Citronella Java Oil	Free Organic Acids/C4-C5 Isomers	Organic Acids	Volatile Sulfurs

GsBP-Inowax Ordering Info

ID (mm)	Length (m)	Film (um)	Temperature Limit (°C)	P/N
0.20	25	0.20	40 to 260/280	2020-2502
	25	0.40	40 to 260/280	2020-2504
	50	0.20	40 to 260/280	2020-5002
	50	0.40	40 to 260/280	2020-5004
0.25	15	0.25	40 to 260/280	2025-1502
	15	0.50	40 to 260/280	2025-1505
	30	0.15	40 to 260/280	2025-3001
	30	0.25	40 to 260/280	2025-3002
	30	0.50	40 to 260/280	2025-3005
	60	0.15	40 to 260/280	2025-6001
	60	0.25	40 to 260/280	2025-6002
	60	0.50	40 to 260/280	2025-6005
0.32	15	0.25	40 to 260/280	2032-1502
	15	0.50	40 to 260/280	2032-1505
	30	0.15	40 to 260/280	2032-3001
	30	0.25	40 to 260/280	2032-3002
	30	0.50	40 to 260/280	2032-3005
	60	0.15	40 to 260/280	2032-6001

ID (mm)	Length (m)	Film (um)	Temperature Limit (ºC)	P/N
0.53	60	0.25	40 to 260/280	2032-6002
	60	0.50	40 to 260/280	2032-6005
	15	1.00	40 to 240/250	2053-1510
	30	1.00	40 to 240/250	2053-3010
	60	1.00	40 to 240/250	2053-6010

GsBP-Inowax-MS Ordering Info

ID (mm)	Length (m)	Film (um)	Temperature Limit (ºC)	P/N
0.25	30	0.25	40 to 260/280	2425-3002
	60	0.25	40 to 260/280	2425-6002
	60	0.50	40 to 260/280	2425-6005
0.32	30	0.25	40 to 260/280	2432-3002
	30	0.50	40 to 260/280	2432-3005

TIP: Cut column ends with a ceramic wafer and check the cut edges with a magnifier.

GsBP-FFAP

Ideal column for oxygenate solvents, volatile fatty acids or phenols in food, beverage, drugs, and others

- Polyethylene Glycol, nitroterephthalic acid modified, crosslinked and bonded
- Solvent rinseable with virtually all solvents, highest temperature limit
- Exceptionally low column bleed and high plate numbers
- Wide range of column dimensions and stationary phase film thicknesses for GC and GC/MS
- Polar. Equivalent to USP G25 and G35

Similar Phases: DB-FFAP, HP-FFAP, Rtx-Stabilwax-DA, OV-351, CP-Wax 58 CB, BP-21, AT-100

Typical Applications:

Acrylates	Asprin and Ibuprofen in Methanol	Ethoxyethanol	Malt Whiskey
Alcoholic Beverage Standard: Acids & Esters	Cresylic Acids	Fatty Acids (Free)	Organic Acids

GsBP-FFAP Ordering Info

ID (mm)	Length (m)	Film (um)	Temperature Limit (ºC)	P/N
0.20	25	0.30	50 to 260	2120-2503
	50	0.30	50 to 260	2120-5003
0.25	15	0.25	50 to 260	2125-1502
	30	0.25	50 to 260	2125-3002
0.32	15	0.25	50 to 260	2132-1502
	25	0.50	50 to 260	2132-2505
	30	0.25	50 to 260	2132-3002
	30	0.50	50 to 260	2132-3005
	50	0.50	50 to 260	2132-5005
0.53	10	1.00	50 to 250	2153-1010
	15	1.00	50 to 250	2153-1510
	30	1.00	50 to 250	2153-3010