

USP Specification for GC Support

Code	Support	Commercially Available
S1A	Siliceous earth for gas chromatography has been flux-calcined by mixing diatomite with Na ₂ CO ₃ flux and calcining above 900 °C . The siliceous earth is acid-washed, then water-washed until neutral, but not base-washed. The siliceous earth may be silanized by treating with an agent such as dimethyldichlorosilane to mask surface silanol groups.	Shimalite W AW Shimalite W AW-DMCS Chromosorb W HP Chromosorb W AW
S1AB	The siliceous earth as described above is both acid- and base-washed.	Chromosorb W-HP
S1C	A support prepared from crushed firebrick and calcined or burned with a clay binder above 900° with subsequent acid-wash. It may be silanized.	Shimalite AW Shimalite AW-DMCS Chromosorb P AW Chromosorb P AW-DMCS
S1NS	The siliceous earth is untreated.	Shimalite W NAW Chromosorb W NAW
S2	Styrene-divinylbenzene copolymer having a nominal surface area of less than 50 m ² per g and an average pore diameter of 0.3 to 0.4 μm.	Sunpak-H Chromosorb 101 (not available as capillary column)
S3	Copolymer of ethylvinylbenzene and divinylbenzene having a nominal surface area of 500 to 600 m ² per g and an average pore diameter of	Sunpak-A Porapak Q
S4	Styrene-divinylbenzene copolymer with aromatic - O and N groups, having a nominal surface area of 400 to 600 m ² per g and an average pore diameter of 0.0076 μm.	Porapak R
S5	40- to 60-mesh, high-molecular weight tetrafluoroethylene polymer.	Shimalite F Chromosorb T
S6	Styrene-divinylbenzene copolymer having a nominal surface area of 250 to 350 m ² per g and an average pore diameter of 0.0091 μm.	Porapak P Chromosorb 102
S8	Copolymer of 4 - vinyl - pyridine and styrene - divinylbenzene.	Porapak S
S9	A porous polymer based on 2,6-diphenyl-p-Phenylene oxide.	Tenax TA

USP Specification for GC Stationary Phases

Code	Support	Commercially Available
G1	Dimethylpolysiloxane oil	ULBON HR-1 Silicone OV-101
G2	Dimethylpolysiloxane gum	ULBON HR-1 Silicone OV-1 Silicone SE-30
G3	50% Phenyl-50% methylpolysiloxane	ULBON HR-17 Silicone OV-17
G4	Diethylene glycol succinate polyester	DEGS
G5	3-Cyanopropylpolysiloxane	Silicone OV-275
G6	Trifluoropropylmethylpolysiloxane	Silicone OV-210 Silicone DC QF-1
G7	50% 3-Cyanopropyl-50% phenylmethylsilicone	Silicone OV-235
G8	80% Bis(3-Cyanopropyl)-20% 3-cyanopropylphenylpolysiloxane	Silicone OV-255
G9	Methylvinylpolysiloxane OV-1	Silicone OV-1
G11	Bis(2-ethylhexyl)sebacate polyester	Octoil-S (DOS)
G13	Sorbitol	Sorbitol
G14	Polyethylene glycol (av.mol.wt. of 950 to 1050)	PEG-1000
G15	Polyethylene glycol (av.mol.wt. of 3000 to 3700)	PEG-4000
G16	Polyethylene glycol compound (av. mol. wt. about 15,000). A high molecular weight compound of polyethylene glycol with a diepoxide linker. Available commercially as Polyethylene Glycol Compound 20M, or as Carbowax 20 M from suppliers of chromatographic reagents.	ULBON HR-20M PEG-20M
G17	75% Phenyl 25% methylpolysiloxane	Silicone OV-25
G18	Polyalkylene glycol	Ucon LB-550X
G19	25% Phenyl 25% Cyanopropyl 50% methylsilicone	Silicone OV-225
G20	Polyethylene glycol (av.mol.wt. of 380 to 420)	PEG-400
G21	Neopentyl glycol succinate	Neopentylglycol succinate (NGS)
G22	Bis(2-ethylhexyl)phthalate	Diocetyl phthalate (DOP)
G23	Polyethylene glycol adipate	Ethylene glycol adipate (EGA)
G24	Diisodecyl phthalate	Diisodecyl phthalate (DIDP)
G25	Polyethylene glycol compound TPA. A high molecular weight compound of a polyethylene glycol and a diepoxide that is esterified with terephthalic acid. Available commercially as Carbowax 20M-TPA from supplier of chromatographic reagents.	PEG-20M TPA
G26	25% 2-Cyanoethyl 75% methylpolysiloxane	Silicone OV-225

G27	5% Phenyl 95% methylpolysiloxane	ULBON HR-52 Silicone SE-52 Silicone SE-54
G28	25% Phenyl 75% methylpolysiloxane	Silicone DC-550
G29	3,3'-Thiodipropionitrile	3,3'-Thiodipropionitrile (TDPN)
G30	Tetraethylene glycol dimethyl ether	Tetraethylene glycol dimethyl ether (BMEE)
G31	Nonylphenoxypoly(ethyleneoxy)ethanol (av. Ethyleneoxy chain length is 30); Nonoxynol 30.	Igepal CO-880
G32	20% Phenylmethyl 80% dimethylpolysilicone	Silicone OV-7
G34	Diethylene glycol succinate polyester stabilized with phosphoric acid.	DEGS+H3PO4
G35	A high molecular weight compound of polyethylene glycol and a diepoxide that is esterified with nitroterephthalic acid.	FON FFAP
G36	1% Vinyl 5% phenylmethylpolysiloxane	ULBON HR-52 Silicone SE-52 Silicone SE-54
G39	Polyethylen glycol (av.mol.wt. about 1500)	PEG-1500
G40	Ethylene glycol adipate	Ethylene Glycol Adipate (EGA)
G41	Phenylmethyldimethylpolysiloxane (10% Phenyl substituted)	Silicone OV-3
G42	35% phenyl-65% dimethylpolysiloxane (percentages refer to molar	Silicone OV-11
G44	2% low molecular weight petroleum hydrocarbon grease and 1% solution of potassium hydroxide.	Apiezon L
G45	Divinylbebebe-ethylene glycol dimethylacrylate	Porapak N
G46	14% cyanopropylphenyl-86% methylpolysiloxane.	ULBON HR-1701