

DESCRIPTION	SOLID SUPPORT	USP CODE
Siliceous earth	Silcoport® Chromosorb® WHP	S1A
Siliceous earth, treated as S1A and both acid-and base-washed	Silcoport® WBW	S1AB
Crushed firebrick, calcined or burned with a clay binder above 900°C, acid-washed, may be silanized	Chromosorb® PAW DMDCS	S1C
Untreated siliceous earth	Chromosorb® W NAW	S1NS
Styrene-divinylbenzene copolymer with nominal surface area of less than 50m ² /g and ave. pore diameter of 0.3 - 0.4 mm	Chromosorb® 101	S2
Styrene-divinylbenzene copolymer with nominal surface area of 500 to 600m ² /g and ave. pore diameter of 0.0075 mm	Hayesep® Q Porapack® Q	S3
Styrene-divinylbenzene copolymer with aromatic -O and -N groups having a nominal surface area of 400 to 600m ² /g and ave. pore diameter of 0.0076 mm	Hayesep® R Porapack® R	S4
High molecular weight tetrafluoroethylene polymer, 40-60 mesh	Chromosorb® T	S5
Styrene-divinylbenzene copolymer with nominal surface area of 250-350m ² /g and ave. pore diameter of 0.0091 mm	Chromosorb® 102, Porapack®, Hayesep®, CarboBlack®	S6
Graphitized carbon having a nominal surface area of 12m ² /g	CarboBlack®	S7
Copolymer of 4-vinyl-pyridine and styrene divinylbenzene	Hayesep® S, Porapack® S	S8
Porous polymer based on 2,6-diphenyl-p-phenylene oxide	Tenax® TA	S9
Highly cross-linked copolymer of acrylonitrile and divinylbenzene	Hayesep® C	S10
Graphitized carbon having a nominal surface area of 100m ² /g, modified with small amounts of petrolatum and polyethylene glycol compound	CarboBlack® B 80/120 3%Rt 1500	S11
Graphitized carbon having a nominal surface area of 100m ² /g	CarboBlack® B	S12

Packed Columns - Solid Supports for USP Methods



These columns have been used for the last 50 years in all kinds of analyses for gas chromatography.

"Packed column use today is understandable due to the wide range of solid support packings available and to their high on-column sample capacity. These aspects make packed columns quite versatile for a wide range of applications".

"Today Packed columns are still demonstrating their utility in the solution of many analytical problems where it is not necessary to use the high resolution of capillary columns".

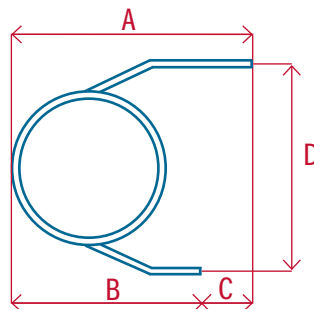
"Teknokroma has packed columns since its beginnings and have always provided a wide range and latest advantages in this area of gas chromatography. Within these new advances we showcase the latest advance in micro-packed columns (0,75mm and 1,00mm ID) and new bonded phase packings".

WE CAN SUPPLY YOU ANY KIND OF COLUMNS... JUST ASK FOR THEM!

Tubing	External Diameter (OD)	Internal Diameter (ID)
Glass	1/4"	2mm, 3mm and 4mm
Stainless Steel	1/4" and 1/8"	4mm, 3mm and 2mm
Silcosteel®	1/4" and 1/8"	5.2mm and 2mm
	1/16"	0.75mm and 1mm
Nickel, Teflon and Copper	1/8"	2 mm

Columns can be delivered pre-conditioned or conditioned and proved at an extra cost (please inquire).

To Order a Packed Column Specify the Following



Physical Dimensions

A: _____
 B: _____
 C: _____
 D: _____

Chromatograph manufacturer: _____

Model: _____

Tubing material: _____

Length: _____ O.D. _____ I.D. _____

Packing Description

Percentage of coating: _____ Phase: _____

Support: _____

Treatment (WAW,,WHP,,): _____ Mesh size: _____

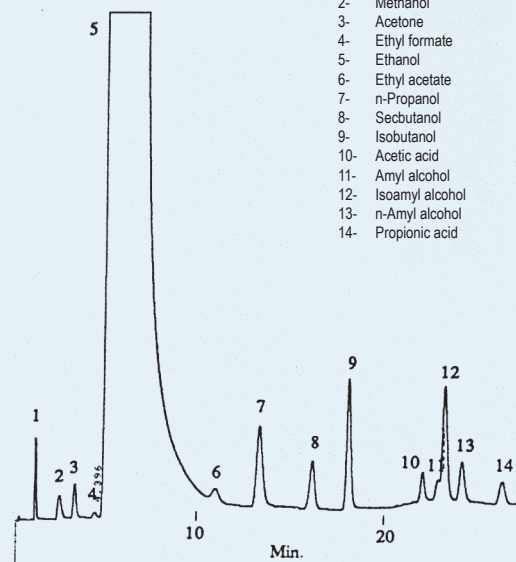
Comments: _____

PACKED COLUMNS

Column: 5% Carbowax 20M CarboBlack B/AW, 80/120 mesh
 Dimensions: 2m x 1/8" OD X 2mm ID, (Silcosteel)
 Injection: 1 µl standard, 175°C
 Carrier Gas: He, 15mL/min
 Oven temperature: 60°C(6min) @ 10°C/min to 150°C(7min)
 Detector: FID, 175°C

Peak Name

- 1- Acetaldehyde
- 2- Methanol
- 3- Acetone
- 4- Ethyl formate
- 5- Ethanol
- 6- Ethyl acetate
- 7- n-Propanol
- 8- Secbutanol
- 9- Isobutanol
- 10- Acetic acid
- 11- Amyl alcohol
- 12- Isoamyl alcohol
- 13- n-Amyl alcohol
- 14- Propionic acid



DESCRIPTION	T LIMITS (°C)	USP CODE
Alltech AT™-1000	50/250	G35
Apiezon® L	50/300	-
Apiezon® M	50/300	-
Bentone 34	0/180	-
N,N-bis-(2-Cyanoethyl)formamide (BCEF)	20/125	-
N,N-bis-(p-Methoxybenzylidene)-a,a'-bi-p-toluidine (BMBT)	150	-
Bis-(2-ethoxyethyl) Adipate (BEEA)	150	-
Bis-(2-methoxyethyl) Adipate (BMEA)	150	-
Carbowax® 400	20/100	G20
Carbowax® 540	40/175	G39
Carbowax® 600	20/125	-
Carbowax® 1000	40/150	G14
Carbowax® 1540	50/175	G39
Carbowax® 3350	60/200	G15
Carbowax® 6000	60/200	-
Carbowax® 20M	60/225	G16
Carbowax® 20M-TPA	60/250	G25
DC-200, 350cstk (Methyl)	20/250	-
DC-200, 500cstk (Methyl)	20/250	-
DC-550, (25%-Phehyl)	20/225	G28
Dexsil® 300GC	50/400	G33
Di-n-butyl Maleate	20/50	-
Di-n-decyl phthalate	10/175	-
Di(2-ethylhexyl)sebacate	0/125	G11
Diethyleneglycol Adipate	20/210	-
Diethyleneglycol Succinate	20/200	G4
Diglycerol	20/100	-
2,4-Dimethylsulfonate	0/50	-
Dinonyl Phthalate	20/150	-
Diisodecyl Phthalate	20/150	G24
Ethyleneglycol Adipate	100/210	G40
Ethyleneglycol Succinate	100/210	-
Fluorad FC-431	40/200	-
FFAP	50/250	G35
Halocarbon oil 14-25	150	-
Igepal® CO-630	30/200	-
Igepal® CO-880 (Nonoxynol)	100/200	G31
Igepal® CO-990	100/200	-
Kel-F® Oil No.10	100	-
Neopentylglycol Succinate	50/230	G21
OV™-1 (Methyl gum)	100/350	G2
OV™-17 (50% phenyl)	20/350	G3
OV™-17-Vinyl (50% phenyl)	300+	-

DESCRIPTION	T LIMITS (°C)	USP CODE
OV™-25 (75% phenyl)	300	G17
OV™-101 (Methyl fluid)	20/350	G1
OV™-210 (50% Trifluoropropyl)	20/275+	G6
OV™-225 (25% phenyl, 25% cyanopropyl methyl)	20/250+	G19
OV™-275 (Dicyanoallyl)	250+	-
OV™-1701	0/250	-
b,b-Oxydipropionitrile	0/75	-
Phenyldiethanolamine Succinate	0/230	G12
Polyethylene glycol adipate	0/225	G23
Polyethyleneimine	0/175	-
Polyphenyl ether (5 rings) OS-124	0/200	-
Polyphenyl ether (6 rings) OS-138	0/225	-
Polypropylene glycol	0/150	-
Polypropyleneimine	0/200	-
QF-1 (50% Trifluoropropyl)	20/250	-
SE-30 (Methyl gum)	75/300	-
SE-30 (GC grade)	75/300	G2
SE-52 (5% Phenyl)	50/300	G27
SE-54 (5% Phenyl, 1% Vinyl)	50/300	G36
Sebacitrile	150	-
Silar® 5CP (50% Cyanopropyl Phenyl Silicone)	50/250	G7
Silar® 9CP (90% Cyanopropyl Phenyl Silicone)	50/250	G8
Silar® 10C (100% Cyanopropyl Silicone)	50/250	G5
Sorbitol	100/150	G13
SP-1200	25/200	-
SP-2100 (Methyl silicone)	0/350	G1
SP-2300 (Polycyanopropylphenylsiloxane)	20/275	G7
SP-2330 (Poly(80%-biscyanopropyl-20%-cyanopropylphenyl)siloxane)	25/275	G8
SP-2340 (Polybiscyanopropylsiloxane)	25/275	G5
Squalene	20/150	-
SUPEROX® 4 (4.000.000 MW)	300	-
SUPEROX® 20M (20.000 MW)	60/250	-
Tetracyanoethylated Pentaerythritol (TCEPE)	30/150	-
Tetrahydroxyethylethylene Diamine (THEED)	125	-
1,2,3-Tris-(2-cyanoethoxy)propane (TCEP)	20/180	-
Triton® X-100	0/200	-
Triton® X-305 (Octylphenoxy Polyethoxy-ethanol)	20/250	-
UC W-98 (UC-W982)	80/300+	G9
UCON LB-1800-X (Polyalkylene Glycol)	200	G18
Versamid® 900	275	-

For other stationary phases please inquire