

## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
<b>A</b>								
	Acetyl Tributyl Citrate (-25~180) (Citroflex A-4)	High	1~25	Required support			9,000+α	
A-40H	Advance-DS (30~230)	-	5	Chromosorb W	80/100	HP	50 mL 17,900	Acetylated sugars, fatty acid methyl esters (FAMES), organic acids
			1~25	Required support			50 mL 9,000+α/2	
A-41H	Advance-DS + H <sub>3</sub> PO <sub>4</sub> (30~230)	High	2+0.5	Chromosorb W	80/100	HP	50 mL 19,400	Organochlorine pesticides
	Apiezon H (20~300)	Non-polar	1~10	Required support			18,800+α	High boiling point compounds
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
A-10	Apiezon L (20~300)	Non-polar	25	Shimalite	60/80	NAW	36,400	High boiling point compounds
A-35			25	Shimalite	80/100	NAW	29,600	
A-43H			20	Chromosorb W	60/80	HP	34,400	
A-44			10	Shimalite W	60/80	AW-DMCS	34,500	
A-45H			10	Chromosorb W	60/80	HP	34,600	
A-46H			10	Chromosorb W	80/100	HP	34,600	
A-47			5	Shimalite W	60/80	AW-DMCS	34,500	
A-48H			5	Shimalite W	80/100	AW-DMCS	35,300	
A-49H			5	Chromosorb W	60/80	HP	34,600	
A50H			5	Chromosorb W	80/100	HP	34,600	
			1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
A-42	Apiezon L + KOH (30~250)	Non-polar	5+1	Sunpak-A	50/80		50 mL 26,700	Short-chain amines
A-51H	Apiezon L + KOH (30~300)		20+10	Chromosorb W	60/80	HP	40,000	Amines
A-24	Apiezon M (20~275)	Non-polar	25	Shimalite	60/80	NAW	28,600	High boiling point compounds
			1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Apiezon N (20~250)	Non-polar	1~10	Required support			18,800+α	High boiling point compounds
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				

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	Apiezon T (20~250)	Non-polar	1~10	Required support			18,800+α	High boiling point compounds
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Apiezon Wax W (20~250)	Non-polar	1~25	Required support			9,000+α	High boiling point compounds
A-53	Armeen SD (30~100)	Medium	10	Shimalite W	60/80	AW-DMCS	18,000	Amines, nitriles
A-54H			10	Chromosorb W	60/80	HP	17,700	
			1~25	Required support			9,000+α	
	4,4'-Azoxydianisole (30~150)	Medium	1~10	Required support			24,000+α	Aromatic hydrocarbons
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
	4,4'-Azoxydiphenetole (135~150)	Low	1~10	Required support			18,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
<b>B</b>								
	Bentone 34 (60~200)	Medium	1~25	Required support			9,000+α	
B-19	Bentone 34 + DNP (60~150)	Medium	5+5	Shimalite	80/100	NAW	23,700	Aromatic hydrocarbon isomers, especially xylene isomers
B-22	Bentone 34 + DDP (60~150)	Medium	1~25	Shimalite	60/80	NAW	22,600	Xylene isomers
B-37H	Bentone 34 + Silicone DC-200 (50~200)	Low	5+5	Chromosorb W	60/80	HP	29,800	Xylene isomers
B-32	Bentone 34 + DIDP (60~150)	Medium	5+5	Shimalite	60/80	NAW	22,600	Xylene isomers
	Benzyl Cyanide (Phenyl-Acetonitrile) (0~50)	High	1~25	Required support			9,000+α	Hydrocarbons (olefins and paraffins)
B-17	Benzyl Cyanide+AgNO <sub>3</sub> (0~50)	High	35	Shimalite	60/80	NAW	22,600	Hydrocarbons (olefins and paraffins)
B-27	N,N'-Bis(2-Cyanoethyl) Formamide (20~125)	High	15	Shimalite	60/80	NAW	36,900	Hydrocarbons
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
	Bis(2-Ethoxyethyl) Sebacate (~150)	High	1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Bis(2-Butoxyethyl)Phthalate (BBEP) (30~175)	Medium	1~25	Required support			9,000+α	Hydrocarbons

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	Bis(2-Methoxyethyl) Adipate (BMEA) (20~80)	Medium	1~10	Required support			26,000+α	Hydrocarbons
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
BMEE (See Tetraethyleneglycol Dimethyl Ether)								
	1,4-Butanediol Adipate (1,4-BDA) (30~210)	High	1~25	Required support			9,000+α	Long-chain fatty acid esters
B-28	1,4-Butanediol Succinate (1,4-BDS) (50~210)	High	20	Shimalite	60/80	AW	22,500	Fatty acid esters
B-18			20	Chromosorb W	60/80	AW	20,800	
B-33			10	Shimalite W	60/80	AW-DMCS	26,700	
B-34H			10	Chromosorb W	60/80	HP	26,800	
B-35			5	Shimalite W	60/80	AW-DMCS	26,700	
B-36H			5	Chromosorb W	60/80	HP	25,800	
			1~25	Required support			9,000+α	
B-29H	1,4-Butanediol Succinate-HG (50~190)	High	20	Chromosorb W	80/100	HP	53,600	Alkyl mercury compounds
B-30H			10	Chromosorb W	80/100	HP	53,600	Phenyl mercury compounds
C								
Carbowax (See Polyethyleneglycol)								
	Carnauba Wax (90~200)	Medium	1~25	Required support			9,000+α	Hydrocarbons
C-10	Castor Wax (90~200)	Medium	20	Shimalite	60/80	NAW	19,600	High boiling point compounds
			1~25	Required support			9,000+α	
	Citroflex 4(Tributyl Citrate) (30~150)	Medium	1~25	Required support			11,000+α	Alcohols, aromatic hydrocarbons, esters
D								
	Daifloil No. 3 (0~50)	Non-polar	1~25	Required support			9,000+α	Corrosive samples
	Daifloil No. 10 (0~50)	Non-polar	1~25	Required support			9,000+α	Corrosive samples
	Daifloil No. 100 (0~50)	Non-polar	1~25	Required support			9,000+α	Corrosive samples

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D-6	Dibutyl Maleate(DBM) (0~50)	High	25	Shimalite	60/80	NAW	19,600	Short-chain hydrocarbons
D-84			25	Shimalite	80/100	NAW	20,700	
			1~25	Required support			9,000+α	
D-10	DBM + ODPN (0~50)	High	35 (95:5)	Shimalite	60/80	NAW	22,600	
D-11	DBM + Propylene Carbonate (0~50)	High	35 (35:65)	Shimalite	60/80	NAW	22,600	
	Dibutyl Phthalate(DBP) (20~100)	Medium	1~25	Required support			9,000+α	Esters, hydrocarbons
D-69	Didecyl Phthalate(DDP) (10~125)	Medium	20	Shimalite	60/80	NAW	19,600	Esters, hydrocarbons
			1~25	Required support			9,000+α	
	Diethylene Glycol(DEG) (20~50)	High	1~25	Required support			9,000+α	Esters, hydrocarbons
D-70	Diethyleneglycol Adipate (DEGA)(20~225)	High	15	Shimalite	60/80	AW	22,500	Long-chain fatty acid esters
D-81			10	Chromosorb W	60/80	AW	20,800	
D-1			5	Shimalite W	60/80	AW	22,900	
			1~25	Required support			9,000+α	
	Diethyleneglycol Isophthalate(DEGIP) (20~200)	High	1~25	Required support			9,000+α	Long-chain fatty acid esters
	Diethyleneglycol Sebacate(DEGSe) (30~210)	High	1~25	Required support			9,000+α	High boiling point compounds, long-chain fatty acid esters
D-23	Diethyleneglycol Succinate(DEGS) (20~225)	High	25	Shimalite	60/80	AW	20,200	Fatty acid esters
D-123S			25	Celite 545	60/80	AS	22,100	
D-60SH			25	Chromosorb W	60/80	HP	24,800	
D-25			15	Shimalite	60/80	AW	20,400	
D-85			15	Shimalite	80/100	AW	21,100	
D-125S			15	Celite 545	60/80	AS	22,100	
D-86S			15	Shimalite W	80/100	AW-DMCS	23,600	
D-58			15	Chromosorb W	60/80	AW	20,000	
D-58SH			15	Chromosorb W	60/80	HP	24,800	
D-87SH			15	Chromosorb W	80/100	HP	25,000	
D-26S			10	Shimalite W	60/80	AW-DMCS	22,700	

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D-27S	Diethyleneglycol Succinate(DEGS) (20~225)	High	5	Shimalite W	60/80	AW-DMCS	22,700	Long-chain fatty acid esters
D-82SH			5	Chromosorb W	60/80	HP	24,800	
			1~25	Required support			9,000+α	
D-71H	Diethyleneglycol Succinate-HG (DEGS-HG) (20~190)	High	20	Chromosorb W	80/100	HP	53,600	Alkyl mercury compounds
D-72H			10	Chromosorb W	80/100	HP	53,600	Phenyl mercury compounds
D-73SH	Diethyleneglycol Succinate + H <sub>3</sub> PO <sub>4</sub> (DEGS + H <sub>3</sub> PO <sub>4</sub> ) (20~225)	High	10+1	Chromosorb W	60/80	HP	29,800	Organic acids
D-28SH			5+1	Chromosorb W	60/80	HP	29,800	Preservatives
D-28			5+1	Chromosorb W	60/80	AW	23,800	
D-74H			2+0.5	Chromosorb W	80/100	HP	29,800	Organochlorine pesticides
D-54	Diglycerol (20~150)	High	25	Shimalite	60/80	NAW	19,600	Alcohols, esters
			1~25	Required support			9,000+α	
D-80H	Diglycerol + Tetraethylene Pentamine + KOH (20~80)	High	15+15+2	Chromosorb W	80/100	HP	32,800	Short-chain amines
	Diisodecyl Phthalate (DIDP)(20~150)	Medium	1~25	Required support			9,000+α	Hydrocarbons, short-chain alcohols
	Diisopropyl Phthalate (DIPP) (20~150)	Medium	1~25	Required support			9,000+α	Hydrocarbons
	Dilauryl Phthalate(DLP) (20~140)	Medium	1~25	Required support			9,000+α	Hydrocarbons, short-chain alcohols
D-12	Dimethyl Formamide (DMF)(-10~30)	High	50	Shimalite	60/80	NAW	19,600	Short-chain hydrocarbons
			1~50	Required support			9,000+α	
D-8	Dimethyl Sulfolane (DMS)(-10~50)	High	25	Shimalite	60/80	NAW	66,600	Short-chain hydrocarbons
D-9			25	Shimalite	80/100	NAW	67,600	
			1~10	Required support Add 2,000 JPY per 1% increase in stationary phase.			36,000+α	
	Dimethyl Sulfoxide (DMSO) (-10~50)	High	1~25	Required support			9,000+α	Short-chain hydrocarbons
D-14	Dinonyl Phthalate (DNP) (0~150)	Medium	25	Shimalite	60/80	BT	22,500	Alcohols, esters
D-16			25	Shimalite	80/100	BT	23,100	
D-15			5	Shimalite W	60/80	BT	22,900	
D-45			5	Chromosorb W	60/80	BT	20,800	
			1~25	Required support			9,000+α	
D-78H	Dinonyl Phthalate + H <sub>3</sub> PO <sub>4</sub> (DNP+H <sub>3</sub> PO <sub>4</sub> ) (0~150)	Medium	6+1	Chromosorb W	60/80	HP	29,800	Phenols

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D-126H	Diocetyl Phthalate [Di(2-Ethylhexyl) Phthalate] (DOP) (20~150)	Medium	30	Chromosorb W	80/100	HP	26,800	Alcohols, esters	
D-17			25	Shimalite	60/80	NAW	19,600		
D-18			25	Shimalite	80/100	NAW	20,700		
D-124H			20	Chromosorb W	60/80	HP	26,800		
D-127H			10	Chromosorb W	60/80	HP	26,800	Alcohols, esters	
D-128H			10	Chromosorb W	80/100	HP	26,800		
			1~25	Required support					9,000+α
D-4	Octoil S (Diocetyl-Sebacate) [Di(2-Ethylhexyl) Sebacate] (DOS) (0~140)	Medium	25	Shimalite	60/80	NAW	19,600	Alcohols, esters	
D-62			20	Chromosorb W	60/80	AW	20,800		
			1~25	Required support					9,000+α
D-19	DOP-B (50~120)	Medium	30	Shimalite	60/80	NAW	19,600	Alcohols in thinners, etc.	
	n-Dodecane (-10~30)	Non-polar	1~25	Required support			9,000+α	Short-chain hydrocarbons	
E									
	ECNSS-M (Ethylene Succinate Cyanoethyl Silicone Polymer) (50~220)	Low	1~5	Required support			33,000+α	Long-chain fatty acid methyl esters (FAMES), monosaccharides	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.					
E-24H	EGSS-X (Ethylene glycol succinate methyl silicone copolymer) (50~225)	Low	10	Chromosorb W	60/80	HP	52,600	Fatty acid esters	
			1~5	Required support					33,000+α
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.					
E-25	EPON 1001 (Epoxy resin) (50~200)	High	10	Shimalite W	60/80	AW-DMCS	26,700	Oxygen containing compounds	
E-26H			10	Chromosorb W	60/80	HP	26,800		
			1~25	Required support					9,000+α
E-13	Ethofat 60/25 (20~120)	Low	20	Shimalite F	20/80		21,800	Alcohols, aldehydes, esters	
			1~10	Required support					16,800+α
			10<	Required support Add 600 JPY per 1% increase in stationary phase.					
E-5	Ethyleneglycol Adipate (EGA) (50~225)	High	25	Shimalite	60/80	AW	22,500	Long-chain fatty acid esters	
E-27H			20	Chromosorb W	60/80	HP	26,800		
E-28			10	Shimalite W	60/80	AW-DMCS	26,700		
E-29H			10	Chromosorb W	60/80	HP	26,800		
E-30			2	Chromosorb G	60/80	AW-DMCS	35,000	Residual pesticides	
E-31			0.5	Chromosorb W	80/100	AW	20,800	Amino acids	
			1~25	Required support				9,000+α	

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E-7	Ethylene glycol Sebacate (EGSe) (50~225)	High	15	Shimalite F	20/80		21,000	Alcohols, oxygen containing compounds
			1~25	Required support			9,000+α	
E-3	Ethylene glycol Succinate (EGS) (50~225)	High	25	Shimalite	60/80	AW	22,500	Long-chain fatty acid esters
E-32H			20	Chromosorb W	60/80	HP	26,800	
E-33			10	Shimalite W	60/80	AW-DMCS	26,700	
E-34H			10	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
F								
F-2H	FAL-M (30~210)	Low	25	Chromosorb W	80/100	HP	66,000	Short-chain free fatty acids
F-3	(30~210)		12	Shimalite	80/100	AW-DMCS	64,000	
F-1	(30~185)		10	Shimalite TPA	30/60		69,000	Short-chain free fatty acids in water
F-7	(30~185)		10	Shimalite TPA	60/80		88,600	
F-18	(30~210)		10	SHINCARBON A	80/100		50 mL 49,000	
F-5	FAP-S (30~180)	Medium		Chromosorb W	60/80	AW	38,000	Alkylphenols, cresols, xylenols
F-8	FFAP (Free Fatty Acid Polyester) (30~275)	High	20	Chromosorb W	80/100	AW	41,200	Fatty acids, general solvents
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
F-19	FFAP + H <sub>3</sub> PO <sub>4</sub> (30~275)	High	0.3 + 0.3	Graphite Carbon	60/80		10 g 67,000	Short-chain free fatty acids
F-16H	Flexol 8N8 (20~150)	Low	25	Chromosorb W	60/80	HP	36,500	Ethylene oxide, propylene oxide
			1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
F-13	FON (20~250)	High	20	Celite 545	80/100	A	50 mL 19,700	Free fatty acids, organic acids, long-chain alcohols, styrene monomer in plastics
F-15H			20	Chromosorb W	80/100	HP	50 mL 24,000	
F-12			10	Celite 545	80/100	A	50 mL 14,700	
F-14H			10	Chromosorb W	80/100	HP	50 mL 18,200	
F-17				5	Sunpak-A	50/80		50 mL 25,900

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	FON (20~250)	High	1~10	Required support			50 mL 9,300+α/2	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
G								
	Glycerol (20~100)	High	1~25	Required support			9,000+α	Alcohols
	Glutaronitrile (20~100)	High	1~10	Required support			16,800+α	Short-chain hydrocarbons
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
H								
H-6	n-Hexadecane (0~50)	Non-polar	25	Shimalite	60/80	NAW	20,600	Short-chain hydrocarbons (elute in boiling point order)
H-2	Hexatriacontane (50~100)	Non-polar	30	Shimalite	60/80	NAW	26,800	Hydrocarbons
			1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
H-16	High Vacuum Grease (20~180)	Non-polar	25	Shimalite	60/80	NAW	19,600	Hydrocarbons
H-19H			20	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
H-21	Hyprose SP-80 (20~150)	Non-polar	10	Shimalite W	60/80	AW-DMCS	26,700	Fragrance compounds, refined oils
H-22H			10	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
I								
I-5	Igepal CO-880 (20~200)	Low	10	Shimalite W	60/80	AW-DMCS	27,700	Esters, oxygen containing compounds
I-6H			10	Chromosorb W	60/80	HP	27,800	
			1~25	Required support			10,000+α	
	Igepal CO-990 (50~220)	Low	1~25	Required support			9,000+α	Alcohols, esters, ketones
L								
L-6H	Lanoline (Denatured) (20~200)	Low	10	Chromosorb W	80/100	HP	26,800	Cresols (Separations of <i>o</i> , <i>m</i> , and <i>p</i> isomers)
			1~25	Required support			9,000+α	

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L-8H	Lubrol MOA+KOH (30~150)	Low	10+1	Chromosorb W	60/80	HP	29,800	Dimethylformamide
	Liquid Paraffin (30~130)	Non-polar	1~25	Required support			9,000+α	
<b>N</b>								
N-20	Neopentylglycol Adipate (NGA) (50~225)	High	15	Shimalite W	60/80	AW-DMCS	26,700	Fatty acid esters
N-21H			15	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
	Neopentylglycol Isophthalate (50~225)	High	1~25	Required support			10,000+α	
	Neopentylglycol Sebacate (NGSe) (50~225)	High	1~25	Required support			9,000+α	High boiling point compounds
N-22	Neopentylglycol Succinate (NGS) (50~240)	High	5	Shimalite W	60/80	AW-DMCS	26,700	Fatty acid esters, fragrance compounds, steroids, high boiling point compounds
N-23H			5	Chromosorb W	60/80	HP	26,800	
N-17H			2	Chromosorb W	60/80	HP	26,800	
N-24			1.5	Shimalite W	60/80	AW-DMCS	26,700	
N-4H			1	Chromosorb W	60/80	HP	26,800	
N-25H			1	Chromosorb W	80/100	HP	26,800	
			1~25	Required support			9,000+α	
<b>O</b>								
	n-Octadecane (0~90)	Non-polar	1~25	Required support			11,000+α	Hydrocarbons
O-4	Octoil S (Dioctyl-Sebacate) [Di(2-Ethylhexyl) Sebacate] (DOS) (0~140)	Medium	25	Shimalite	60/80	NAW	19,600	Alcohols, esters
D-62			20	Chromosorb W	60/80	AW	20,800	
			1~25	Required support			9,000+α	
OV-1 (See Silicone OV-1)		OV-101 (See Silicone OV-101)						
OV-17 (See Silicone OV-17)		OV-210 (See Silicone OV-210)						
OV-25 (See Silicone OV-25)		OV-225 (See Silicone OV-225)						
O-42	β,β'-Oxydipropionitrile (ODPN) (0~100)	High	25	Shimalite	60/80	NAW	19,600	Hydrocarbons, mercaptans
O-55			25	Shimalite	80/100	NAW	20,700	
O-56H			25	Chromosorb W	60/80	HP-ST	29,800	Sulfur compounds (monosulfides)
			1~25	Required support			9,000+α	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
P								
	Polyethyleneglycol 200 (PEG 200) (10~100)	High	1~25	Required support			9,000+α	Short-chain alcohols, thinners
	Polyethyleneglycol 300 (PEG 300) (10~100)	High	1~25	Required support			9,000+α	Short-chain alcohols, thinners
P-22	Polyethyleneglycol 400 (PEG 400) (10~100)	High	25	Shimalite	60/80	BT	22,500	Short-chain alcohols, thinners
P-70			15	Shimalite W	60/80	BT	22,900	
			1~25	Required support			9,000+α	
P-6	Polyethyleneglycol 600 (PEG 600) (10~125)	High	25	Shimalite	60/80	BT	22,500	Short-chain alcohols, thinners
P-84			20	Chromosorb W	60/80	BT	20,800	
P-85			10	Shimalite TPA	30/60		33,000	
P-86			10	Shimalite TPA	60/80		52,600	
			1~25	Required support			9,000+α	
P-10	Polyethyleneglycol 1000 (PEG 1000) (20~150)	High	25	Shimalite	60/80	BT	22,700	Short-chain alcohols, thinners
P-11			25	Shimalite	80/100	BT	19,700	
P-110			25	Celite 545	60/80	BT	19,700	
P-87			20	Chromosorb W	60/80	BT	20,800	
P-71			10	Shimalite W	60/80	BT	23,600	
P-88			10	Shimalite TPA	30/60		33,000	
P-89			10	Shimalite TPA	60/80		52,600	
			1~25	Required support			9,000+α	
P-29	Polyethyleneglycol 1500 (PEG 1500) (50~150)	High	25	Shimalite	60/80	BT	22,700	General solvents
P-134H			25	Chromosorb W	60/80	HP	23,300	
P-30			15	Shimalite F	20/80		21,000	
P-72			10	Shimalite W	60/80	BT	23,600	
			1~25	Required support			9,000+α	
	Polyethyleneglycol 1540 (PEG 1540) (50~150)	High	1~25	Required support			9,000+α	General solvents
	Polyethyleneglycol 2000 (PEG 2000) (20~150)	High	1~25	Required support			9,000+α	General solvents
P-73	Polyethyleneglycol 4000 (PEG 4000) (50~170)	High	10	Shimalite W	60/80	BT	23,600	General solvents
			1~10	Required support			9,000+α	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
P-15	Polyethyleneglycol 6000 (PEG 6000) (50~200)	High	25	Shimalite	60/80	BT	22,700	Oxygen containing compounds
P-16	(50~200)		25	Shimalite	80/100	BT	23,600	
P-90	(50~200)		20	Chromosorb W	60/80	BT	20,800	
P-115	(50~200)		15	Celite 545	60/80	BT	20,000	
P-18	(50~200)		15	Shimalite F	20/80		21,000	
P-17	(50~200)		10	Shimalite W	60/80	BT	23,600	
P-74	(50~185)		10	Shimalite TPA	30/60		33,000	Short-chain fatty acids
P-91	(50~185)		10	Shimalite TPA	60/80		52,600	
P-130	(50~200)		10	SHINCARBON A	60/80		50 mL 33,000	
				1~25	Required support			9,000+α
P-19	PEG 6000 + KOH (50~200)	High	10+10	Chromosorb W	60/80	BT	23,800	Oxygen containing compounds
P-135			15+1	Chromosorb 103	80/100		25 g 66,000	Short-chain amines
P-47	Polyethyleneglycol 20M (PEG 20M) (50~230)	High	25	Shimalite	60/80	NAW	19,600	Alcohols, esters, hydrocarbons, ketones
P-48	(50~230)		25	Shimalite	80/100	NAW	20,700	
P-120H	(50~230)		25	Chromosorb W	60/80	HP	24,600	
P-46	(50~230)		20	Shimalite	60/80	NAW	19,600	
P-49	(50~230)		20	Shimalite	80/100	NAW	20,700	
P-57	(50~230)		20	Chromosorb W	60/80	AW	20,000	
P-58	(50~230)		20	Chromosorb W	80/100	AW	20,800	
P-25H	(50~230)		20	Chromosorb W	60/80	HP	24,600	
P-26H	(50~230)		20	Chromosorb W	80/100	HP	26,800	
P-54	(50~230)		15	Shimalite F	20/80		21,000	
P-45	(50~230)		10	Shimalite	60/80	NAW	19,600	
P-51	(50~230)		10	Shimalite	80/100	NAW	20,700	
P-75	(50~230)		10	Shimalite W	60/80	NAW	20,300	
P-121	(50~230)		10	Shimalite W	60/80	AW-DMCS	26,700	
P-122	(50~230)		10	Shimalite W	80/100	AW-DMCS	27,500	
P-55	(50~230)		10	Chromosorb W	60/80	AW	19,300	
P-56	(50~230)		10	Chromosorb W	80/100	AW	20,800	
P-23H	(50~230)		10	Chromosorb W	60/80	HP	24,500	
P-24H	(50~230)		10	Chromosorb W	80/100	HP	25,000	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
P-136	(50~185)	High	10	Shimalite TPA	60/80		52,600	Alcohols, esters, hydrocarbons, ketones
P-131	(50~230)		10	SHINCARBON A	60/80		50 mL 33,000	
			1~25	Required support			9,000+α	
	PEG 20M-TPA (50~250)	Medium	1~10	Required support			16,800+α	Alcohols, aldehydes, ketones
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Polyethyleneimine (0~180)	Medium	1~25	Required support			9,000+α	Polar compounds
P-127	Polyphenyl Ether (5 rings) (OS-124) (10~200)	Low	10	Shimalite W	60/80	AW-DMCS	34,500	Aromatic hydrocarbons
P-128H	(10~200)		10	Chromosorb W	60/80	HP	34,600	
P-81	(10~185)		10	Shimalite TPA	30/60		40,800	Phenols in water, sulfur compounds
P-82	(10~185)		10	Shimalite TPA	60/80		60,400	
			1~10	Required support			16,800+α	
		10<	Required support Add 600 JPY per 1% increase in stationary phase.					
P-133	Polysulfone (240~330)	High	2	Shimalite W	60/80	AW-DCMS	34,500	High boiling point compounds
			1~10	Required support			16,800+α	
			10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Polyvinylpyrrolidone (PVP) (30~200)	Low	1~25	Required support			9,000+α	High boiling point compounds
P-78	Propylenecarbonate (0~50)	High	25	Shimalite	60/80	NAW	19,600	Short-chain hydrocarbons
			1~25	Required support			9,000+α	
	Propyleneglycol (30~150)	Medium	1~25	Required support			9,000+α	Alcohols, esters
	Propylsulfone (0~50)	High	1~25	Required support				Lower hydrocarbons
P-65	Propyleneglycol Adipate (10~225)	High	20	Shimalite	60/80	AW	22,500	Esters, high boiling point compounds
			1~25	Required support			9,000+α	
P-66	Propyleneglycol Sebacate (10~225)	High	20	Shimalite	60/80	AW	22,500	Esters, high boiling point compounds
			1~25	Required support			9,000+α	
P-67	Propyleneglycol Succinate (10~225)	High	20	Shimalite	60/80	AW	22,500	Esters, high boiling point compounds
			1~25	Required support			9,000+α	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
Q								
Q-11	Quadrol (10~150)	High	5	Shimalite W	60/80	AW-DMCS	26,700	Aromatic amines, long-chain amines
Q-12H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
R								
R-1	Reoplex 400 (10~225)	High	20	Shimalite	60/80	NAW	20,600	Anaerobe identification, high boiling point compounds, terpenes
R-4H			20	Chromosorb W	60/80	HP	27,800	
R-3H			10	Chromosorb W	80/100	HP	27,800	
			1~25	Required support			10,000+α	
S								
SAIB (See Sucrose Diacetate Hexaisobutyrate)								
S-93	SBS-1 (20~120)	Medium	10	Shimalite TPA	60/80		52,000	General solvents
S-94	SBS-100 (30~150)	Medium	10	Shimalite TPA	60/80		52,000	Substances found in work environments
S-120	SBS-120 (30~150)	Medium	12	SHINCARBON A	80/100		50 mL 39,000	Organic solvents in air Substances found in work environments
S-99	SBS-200 (30~250)	Low	20	Shimalite W	100/120	AW-DMCS	38,500	Substances found in work environments
S-100	SBS-300 (30~280)	Non-polar	20	Shimalite W	80/100	AW-DMCS	38,500	Chlorinated solvents
	Sebacic Acid (20~150)	Medium	1~25	Required support			9,000+α	
S-66	Sebaconitrile (-10~90)	High	25	Shimalite	60/80	NAW	41,400	Short-chain hydrocarbons
S-85			25	Shimalite	80/100	NAW	42,500	
			1~10	Required support			18,800+α	
			10<	Required support Add 800 JPY per 1% increase in stationary phase.				
E-23	Shinchrom E 71 (100~250)	High	5	Shimalite	80/100	AW	50 mL 16,600	Fatty acid methyl esters (FAMES)
F-9H	Shinchrom F51 + Bentone 34 (30~140)	Low	6+2	Chromosorb W	80/100	HP	50 mL 21,800	Styrene monomer (ethylbenzene and xylene isomers)
F-10H			6+4	Chromosorb W	80/100	HP	50 mL 21,800	
F-11H	Shinchrom F51 + H <sub>3</sub> PO <sub>4</sub> (30~140)	Low	10+1	Chromosorb W	80/100	HP	50 mL 21,800	Short-chain fatty acids

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications		
	SILAR-5CP (50% Cyanopropyl phenyl silicone) (50~275)	High	1~5	Required support			42,000+α	Long-chain fatty acid methyl esters (FAMES)		
			5<	Required support Add 6,000 JPY per 1% increase in stationary phase.						
	SILAR-7CP (70% Cyanopropyl phenyl silicone) (50~275)	High	1~5	Required support			42,000+α	Long-chain fatty acid methyl esters (FAMES)		
			5<	Required support Add 6,000 JPY per 1% increase in stationary phase.						
S-61	Silicone DC 11 (methyl silicone) (10~250)	Low	5	Chromosorb G	60/80	AW-DMCS	35,000	Residual pesticides		
			1~25	Required support			9,000+α			
<b>S</b>										
S-6	Silicone DC 200 (10~250) (Dimethylsilicone Oil)	Non-polar	25	Shimalite	60/80	NAW	19,600	High boiling point compounds		
S-7			25	Shimalite	80/100	NAW	20,700			
S-101H			20	Chromosorb W	60/80	HP	25,700	Trihalomethanes		
S-102H			20	Chromosorb W	80/100	HP	25,900			
S-67			10	Shimalite W	60/80	NAW	20,300	High boiling point compounds		
S-103			10	Shimalite W	60/80	AW-DMCS	26,700			
S-104			10	Chromosorb W	60/80	HP	25,700	Trihalomethanes		
S-95H			10	Chromosorb W	80/100	HP	25,900			
S-105H			5	Chromosorb W	60/80	HP	25,700	High boiling point compounds		
			1~25	Required support			10,000+α			
S-8			Silicone DC 550 (10~250) (25% Phenylmethylsilicone)	Low	25	Shimalite	60/80	NAW	19,600	High boiling point compounds
S-10					25	Shimalite	80/100	NAW	20,700	
S-106H	20	Chromosorb W			60/80	HP	24,400	Trihalomethanes		
S-107H	20	Chromosorb W			80/100	HP	24,600			
S-11	10	Shimalite F			20/80		21,000	General solvents		
S-68	10	Shimalite W			60/80	NAW	20,300	High boiling point compounds		
S-108	10	Shimalite W			60/80	AW-DMCS	26,600			
S-109H	10	Chromosorb W			60/80	HP	24,400	Trihalomethanes		
S-96H	10	Chromosorb W			80/100	HP	24,600			
S-110H	5	Chromosorb W			60/80	HP	24,400	High boiling point compounds		
	1~25	Required support			9,000+α					

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
S-15	Silicone DC 702 (-20~130)	Low	25	Shimalite	60/80	NAW	19,600	Hydrocarbons
			1~25	Required support			9,000+α	
S-111	Silicone DC 710 (0~150) (50% Phenylmethylsilicone)	Low	10	Shimalite W	60/80	AW-DMCS	26,600	General solvents
S-112H			10	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
Q-13	Silicone DC QF-1 (FS-1265) (10~250) (50% Trifluoropropyl methylsilicone)	Low	5	Shimalite W	60/80	AW-DMCS	26,700	High boiling point compounds
Q-8H			5	Chromosorb W	60/80	HP	26,800	
Q-7			2	Shimalite W	80/100	AW-DMCS	27,200	Steroids in urine
Q-6			2	Chromosorb G	60/80	AW-DMCS	35,000	Organochlorine pesticides
Q-14			2	Chromosorb W	80/100	HP	26,800	Bile acids, organophosphorus pesticides
Q-3H			1.5	Chromosorb W	60/80	HP	26,800	High boiling point compounds, steroids
			1~25	Required support			9,000+α	
S-70	Silicone SE-30 (50~300)	Non-polar	20	Shimalite W	60/80	AW	22,400	High boiling point compounds
S-75			15	Chromosorb W	60/80	HP	25,900	
S-91			15	Gas Chrom Q	60/80		38,500	Medicines
S-71			10	Shimalite W	60/80	AW-DMCS	26,600	High boiling point compounds
S-39H			10	Chromosorb W	60/80	HP	25,000	
S-89			10	Gas Chrom Q	60/80		38,500	Medicines
S-113			10	Chromosorb W	80/100	HP	26,800	
S-3			5	Shimalite W	60/80	AW-DMCS	26,700	Alkaloids, high boiling point compounds, steroids
S-64H			5	Chromosorb W	60/80	HP	25,000	
S-24H			1.5	Chromosorb W	60/80	HP	25,000	
S-114H			1.5	Chromosorb W	80/100	HP	25,300	
			1~25	Required support			9,000+α	
S-72			Silicone SE-52 (5% phenyl methyl silicone) (50~300)	Low	10	Shimalite W	60/80	AW-DMCS
S-4	5	Shimalite W			60/80	AW	22,800	
S-65H	5	Chromosorb W			60/80	HP	26,800	
S-25H	1.5	Chromosorb W			60/80	HP	26,800	
	1~25	Required support			9,000+α			

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
	Silicone SE-54 (50~300) (1% Vinyl 5% Phenylmethylsilicone)	Low	1~25	Required support			10,000+α	High boiling point compounds
S-42	Silicone SF-96 (10~210) (Dimethylsilicone Fluid)	Non-polar	15	Shimalite F	20/80		21,000	Halogen compounds
S-115	(10~250)		15	Shimalite W	60/80	AW-DMCS	26,400	High boiling point compounds
S-116H	(10~250)		10	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
X-14	Silicone XF-1150 (50% cyanoethyl methyl silicone) (10~230)	High	5	Shimalite W	60/80	AW-DMCS	41,700	High boiling point compounds, steroids
X-15H			5	Chromosorb W	60/80	HP	41,800	
X-6H			1	Chromosorb W	60/80	HP	41,800	
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
	Silicone Oil KF-96 (30~250) (Dimethylsilicone Fluid)	Low	1~25	Required support			9,000+α	High boiling point compounds
O-57	Silicone OV-1 (50~350) (Dimethylsilicone Gum)	Non-polar	5	Shimalite W	60/80	AW-DMCS	41,700	High boiling point compounds
O-58			5	Shimalite W	80/100	AW-DMCS	42,500	
O-59H			5	Chromosorb W	60/80	HP	40,800	
O-60H			5	Chromosorb W	80/100	HP	40,800	
<b>P</b>								
O-19	Silicone OV-1 (50~350) (Dimethylsilicone Gum)	Non-polar	2	Shimalite W	80/100	AW-DMCS	42,500	Alkaloids, steroids
O-23H			2	Chromosorb W	60/80	HP	36,700	
O-23DH			2	Chromosorb W	80/100	HP	36,900	Organochlorine pesticides, PCBs
O-22H			1.5	Chromosorb W	60/80	HP	36,700	Alkaloids, steroids
O-22DH			1.5	Chromosorb W	80/100	HP	36,900	
O-10			1.5	Shimalite W	80/100	AW-DMCS	42,500	
O-18			1	Shimalite W	80/100	AW-DMCS	42,500	Steroids in urine
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications		
	Silicone OV-3 (20~350) (10% Phenylmethylsilicone)	Low	1~10	Required support			16,800+α	High boiling point compounds		
			10<	Required support Add 600 JPY per 1% increase in stationary phase.						
	Silicone OV-7 (20~350) (20% Phenylmethylsilicone)	Low	1~10	Required support			16,800+α	High boiling point compounds		
			10<	Required support Add 600 JPY per 1% increase in stationary phase.						
	Silicone OV-11 (30~350) (35% Phenylmethylsilicone)	Low	1~10	Required support			16,800+α	High boiling point compounds		
			10<	Required support Add 600 JPY per 1% increase in stationary phase.						
O-61	Silicone OV-17 (20~340) (50% Phenylmethylsilicone)	Low	10	Shimalite W	60/80	AW-DMCS	34,500	High boiling point compounds, medicines		
O-48H			10	Chromosorb W	60/80	HP	34,600			
O-46			5	Shimalite W	80/100	AW-DMCS	35,300			
O-49H			5	Chromosorb W	60/80	HP	33,800			
O-26			3	Shimalite W	80/100	AW-DMCS	35,300	Alkaloids, high boiling point compounds, organochlorine pesticides, steroids		
O-29H			2	Chromosorb W	60/80	HP	31,600			
O-29DH			2	Chromosorb W	80/100	HP	31,800			
O-9			1.5	Shimalite W	80/100	AW-DMCS	35,300			
O-28H			1.5	Chromosorb W	60/80	HP	31,600			
O-28DH			1.5	Chromosorb W	80/100	HP	31,800			
O-24			1	Shimalite W	80/100	AW-DMCS	35,300	Acetaldehyde-2,4-DNPH		
O-53H			1	Chromosorb W	80/100	HP	32,000			
					1~10	Required support			16,800+α	High boiling point compounds
					10<	Required support Add 600 JPY per 1% increase in stationary phase.				
	Silicone OV-22 (20~300) (65% Phenylmethylsilicone)	Low	1~5	Required support			33,000+α	High boiling point compounds		
			5<	Required support Add 600 JPY per 1% increase in stationary phase.						
O-33	Silicone OV-25 (20~300) (75% Phenylmethylsilicone)	Low	3	Shimalite W	80/100	AW-DMCS	42,500	Alkaloids, steroids		
O-31			1.5	Shimalite W	80/100	AW-DMCS	42,500			
O-34DH			1.5	Chromosorb W	80/100	HP	41,800			
			1~10	Required support			24,000+α			
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.						

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
	Silicone OV-61 (20~350) (33% Phenylmethylsilicone)	Low	1~5	Required support			33,000+α	High boiling point compounds
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
	Silicone OV-73 (20~325) (5.5% Phenylmethylsilicone Gum)	Low	1~10	Required support			34,800+α	High boiling point compounds
			10<	Required support Add 1,600 JPY per 1% increase in stationary phase.				
O-39	Silicone OV-101 (20~350) (Dimethylsilicone Fluid)	Non-polar	3	Shimalite W	80/100	AW-DMCS	42,500	Alkaloids, steroids
O-37			1.5	Shimalite W	80/100	AW-DMCS	42,500	
O-40DH			1.5	Chromosorb W	80/100	HP	41,800	
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
	Silicone OV-105 (20~270) (Cyanopropylsilicone)	Low	1~5	Required support			33,000+α	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
	Silicone OV-202 (20~250) (Trifluoropropylmethylsilicone)	Low	1~5	Required support			33,000+α	Alkaloids, high boiling point compounds, steroids
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
O-44	Silicone OV-210 (20~275) (50% Trifluoropropylmethylsilicone)	Low	2	Shimalite W	80/100	AW-DMCS	42,500	Alkaloids, steroids
O-50DH			1.5	Chromosorb W	80/100	HP	41,800	
			1~10	Required support			24,000+α	
			10<	Required support Add 1,000 JPY per 1% increase in stationary phase.				
	Silicone OV-215 (20~250) (Trifluoropropylmethylsilicone Gum)	Low	1~5	Required support			33,000+α	Alkaloids, high boiling point compounds, steroids
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
O-45	Silicone OV-225 (20~280) (25% Phenyl 25% Cyanopropyl silicone)	Low	2	Shimalite W	80/100	AW-DMCS	51,500	Alkaloids, steroids
O-51DH			1.5	Chromosorb W	80/100	HP	50,800	
			1~5	Required support			33,000+α	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
	Silicone OV-275 (20~250) (Dicyanoallylsilicone)	Low	1~5	Required support			33,000+α	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
	Silicone OV-330 (30~250) (A silicone carbowax copolymer)	Low	1~5	Required support			33,000+α	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
	Silicone OV-351 (50~270) (Polyglycol nitroterephthalic)	Low	1~5	Required support			33,000+α	
			5<	Required support Add 3,000 JPY per 1% increase in stationary phase.				
	Silicone OV-1701 (20~340) (Dimethylphenylcyano substituted polymer)	Low	1~5	Required support			42,000+α	
			5<	Required support Add 4,000 JPY per 1% increase in stationary phase.				
S-55	Sorbitol (100~150)	Medium	30	Shimalite	60/80	NAW	19,600	Short-chain alcohols
			1~30	Required support			9,000+α	
S-84H	SP-1200 + Bentone 34 (10~175)	Low	5 +1.75	Chromosorb W	80/100	HP	45,800	Styrene monomer
S-128H			5 +1.75	Chromosorb W	60/80	HP	45,800	
	Span 40 (20~150)	Low	1~25	Required support			9,000+α	Hydrocarbons
	Span 80 (20~150)	Low	1~25	Required support			9,000+α	Hydrocarbons
S-20	Squalane (10~150)	Non-polar	25	Shimalite	60/80	NAW	19,600	Hydrocarbons
S-19			25	Shimalite	80/100	NAW	20,700	
S-121			5	Shimalite W	60/80	AW-DMCS	26,400	
S-53			1	Alumina	60/80	Heated at 600°C	15,800	
			1~25	Required support			9,000+α	
	Squalene (30~140)	Low	1~25	Required support			9,000+α	Hydrocarbons
	Stearic Acid (30~140)	Medium	1~25	Required support			9,000+α	
S-129	Sucrose Diacetate Hexaisobutyrate(SAIB) (10~190)	Low	5	Shimalite W	60/80	AW-DMCS	26,400	Fragrance compounds, refined oils
S-118H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
	Sulfolane (20~110)	High	1~25	Required support			9,000+α	Hydrocarbons
T								
	Tetraethyleneglycol Dimethyl Ether(BMEE) (10~80)	Medium	1~25	Required support			10,000+α	Sulfur compounds
	Tetraethylene Pentamine (0~80)	High	1~25	Required support			9,000+α	Short-chain amines

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications	
T-30	Tetrahydroxyethyl Ethylene Diamine (THEED) (10~180)	Medium	15	Shimalite F	20/80		22,000	Alcohols	
T-91			10	Shimalite W	60/80	AW-DMCS	27,600		
T-92H			10	Chromosorb W	60/80	HP	27,800		
			1~25	Required support					10,000+α
T-70	Thermon-1000 (50~270)	High	25	Shimalite	80/100	AW-DMCS	36,700	Esters, general solvents, medicines	
T-63	(50~270)		10	Chromosorb W	80/100	HP	34,600	Alcohols, high boiling point compounds	
T-64H	(50~270)		5	Chromosorb W	80/100	HP	34,600		
T-88	(50~250)		5	Sunpak-A	50/80		50 mL 29,200	General solvents in water	
			1~10	Required support				16,800+α	Alcohols, high boiling point compounds
			10<	Required support Add 600 JPY per 1% increase in stationary phase.					
T-67H	Thermon-1000+KOH (50~250)	High	10+3	Chromosorb W	80/100	HP	37,600	Alcohols, long-chain amines, short-chain amines	
T-86			5+3	Sunpak-A	50/80		50 mL 30,700		
T-87			5+1	Sunpak-A	50/80		50 mL 30,700		
T-65	Thermon-1000+H <sub>3</sub> PO <sub>4</sub> (50~250)	High	10+1	Chromosorb W	80/100	HP	37,600	Free fatty acids	
T-66H	(50~230)		5+0.5	Chromosorb W	80/100	HP	37,600		
T-82	Thermon-3000 (50~280)	High	10	Shimalite	80/100	AW-DMCS	50 mL 26,000	Gasoline	
T-81H	(50~280)		10	Chromosorb W	80/100	HP	50 mL 26,000	Glycol	
T-79	(50~280)		10	Celite 545	80/100	AS	50 mL 25,100	p-Hydroxybenzoic acid	
T-78	(50~280)		5	Shimalite W	80/100	AW-DMCS	50 mL 25,100	TCP	
T-77H	(50~280)		5	Chromosorb W	80/100	HP	50 mL 26,000	Fragrance compounds	
T-94	(50~280)		5	SHINCARBON A	60/80		50 mL 41,000	Free fatty acids in water, lactic acid	
T-75	(50~185)		3	Shimalite TPA	60/80		50 mL 35,700		
T-76H	(50~280)		2	Chromosorb W	80/100	HP	50 mL 26,000	PEG, TBZ	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications	
T-90	Thermon-3000 (50~210)	High	2	Shimalite F	40/80		50 mL 25,800	Free fatty acids in water, lactic acid	
T-74	(50~185)		1	Shimalite TPA	60/80		50 mL 36,900	Catechol in water	
			1~10	Required support				50 mL 19,200+α/2	
			10<	Required support Add 1,600 JPY per 1% increase in stationary phase.					
T-89	Thermon-3000+KOH (50~250)	High	5+1	Sunpak-A	50/80		50 mL 30,700	Short-chain amines	
T-68H	Thermon-HG (60~170)	High	10	Chromosorb W	80/100	HP	50 mL 30,000	Alkyl mercury compounds	
	β,β'-Thiodipropionitrile (TDPN) (20~90)	High	1~25	Required support			9,000+α	Hydrocarbons	
	Tri-N-Butylphosphate (TBP) (0~50)	Low	1~25	Required support			9,000+α	Hydrocarbons	
	Tributyrine (0~100)	Medium	1~25	Required support			9,000+α	Hydrocarbons	
T-17	Tricresylphosphate (TCP) (0~125)	Medium	25	Shimalite	60/80	NAW	19,600	Hydrocarbons, oxygen containing compounds	
T-18			25	Shimalite	80/100	NAW	20,700		
T-108H			20	Chromosorb W	60/80	HP	26,800		
T-109			10	Shimalite W	60/80	AW-DMCS	26,600		
T-110H			10	Chromosorb W	60/80	HP	26,800		
			1~25	Required support			9,000+α		
T-34	TCP+H <sub>3</sub> PO <sub>4</sub> (0~125)	Medium	10+2	Chromosorb W	60/80	AW	23,800	Cresols, phenols	
T-19	Triethanolamine (TEA) (20~100)	High	25	Shimalite	60/80	NAW	19,600	Short-chain amines	
T-111H			20	Chromosorb W	60/80	HP	26,800		
			1~25	Required support			9,000+α		
	Triisobutylene (TIB) (-10~120)	Low	1~25	Required support			9,000+α	Hydrocarbons	
	Tri-m-Cresylphosphate (0~120)	Low	1~25	Required support			9,000+α	Hydrocarbons, oxygen containing compounds	
T-48	1,2,3-Tris[2-Cyanoethoxy] Propane(TCEP) (10~150)	High	25	Shimalite	80/100	AW-DMCS-ST*	39,700	Methyl mercaptan, monosulfide compounds	
T-2			25	Shimalite	80/100	NAW	29,600	Hydrocarbons	
T-1			20	Shimalite	60/80	NAW	28,800		
			1~10	Required support			16,800+α		
			10<	Required support Add 600 JPY per 1% increase in stationary phase.					

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\*AW-DMCS-ST: Special treatment for analyses of sulfur compounds.

## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
	Triton X-100 (20~190)	High	1~25	Required support			9,000+α	Nitrogen containing compounds
	Triton X-305 (20~230)	High	1~25	Required support			9,000+α	Nitrogen containing compounds
	Trixylenylphosphate (TXP) (20~150)	Low	1~25	Required support			9,000+α	
T-49H	TXP+H <sub>3</sub> PO <sub>4</sub> (20~150)	Low	10 +0.5	Chromosorb W	60/80	HP	29,800	Cresols
T-73	TSR-1 (50~150)	Medium	10	Shimalite F	40/60		50 mL 23,200	Formaldehyde
T-96	TSG-1 (50~230)	High	15	SHINCARBON A	60/80		50 mL 44,000	Formaldehyde
T-42	Tween 60 (10~100)	Medium	20	Shimalite	60/80	AW	22,500	Esters, ketones
T-60			15	Chromosorb W	60/80	AW	20,800	
			1~25	Required support			9,000+α	
T-22	Tween 80 (10~150)	Medium	20	Shimalite	60/80	AW	22,500	Esters, ketones
T-61			15	Chromosorb W	60/80	AW	20,800	
T-23			5	Shimalite W	60/80	AW	22,500	
T-62			5	Chromosorb W	60/80	AW	20,800	
			1~25	Required support			9,000+α	
U								
U-10	Ucon 50-HB-280X (10~190)	High	25	Shimalite	60/80	NAW	19,600	High boiling point compounds
U-23H			20	Chromosorb W	60/80	HP	26,800	
U-24			5	Shimalite W	60/80	AW-DMCS	26,700	
U-25H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
U-12	Ucon 50-HB-2000 (10~200)	High	20	Shimalite	60/80	NAW	19,600	High boiling point compounds
U-26H			15	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
U-27	Ucon 50-HB-5100 (10~190)	High	10	Shimalite W	60/80	AW-DMCS	26,700	High boiling point compounds
U-28H			10	Chromosorb W	60/80	HP	26,800	
U-29H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	

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## Packing Materials

P/N	Stationary phase (Operating temperature range (°C))	Polarity	%	Support	Mesh size	Treatment	Price (JPY) Volume: 100 mL *α: Price of required support	Applications
	Ucon 70-H-90000 (10~190)	High	1~25	Required support			9,000+α	
U-37H	Ucon LB-550X (10~200)	Low	25	Chromosorb W	60/80	HP	26,800	High boiling point compounds
U-2			20	Chromosorb W	80/100	AW	20,800	Vinyl chloride monomer
U-30			10	Shimalite W	60/80	AW-DMCS	26,700	High boiling point compounds
U-31H			10	Chromosorb W	60/80	HP	26,800	
U-32			5	Shimalite W	60/80	AW-DMCS	26,700	
U-33H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	
<b>V</b>								
V-10	Versamid 900 (185~275)	Medium	15	Shimalite W	60/80	AW-DMCS	26,700	Alcohols, amines, high boiling point compounds
V-11H			10	Chromosorb W	60/80	HP	26,800	
V-8			5	Shimalite W	60/80	AW	22,800	
V-12			5	Shimalite W	60/80	AW-DMCS	26,600	
V-13H			5	Chromosorb W	60/80	HP	26,800	
			1~25	Required support			9,000+α	

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