

# Choosing Columns

## By USP

USP Column Classification			
USP	Phase Composition	Vertical® Recommend	Page
G1	Dimethylpolysiloxane oil	VertiBond™ 1, 1ms, 1ht	136, 140, 141
G2	Dimethylpolysiloxane gum	VertiBond™ 1, 1ms, 1ht	136, 140, 141
G3	50% Phenyl-50% methylpolysiloxane	VertiBond™ 17, 17ms, 17HT	148, 149, 150
G5	3-Cyanopropylpolysiloxane	VertiBond™ Silar90	168
G6	Trifluoropropylmethylpolysiloxane	VertiBond™ 210	156
G7	50% 3-Cyanopropyl-50% phenylmethylsilicone	VertiBond™ 225	157
G14	Polyethylene glycol (average MW 950-1,050)	VertiBond™ WAX, WAXms	163
G15	Polyethylene glycol (average MW 3,000-3,700)	VertiBond™ WAX, WAXms	163
G16	Polyethylene glycol (average MW 15,000)	VertiBond™ WAX, WAXms	163
G17	75% Phenyl-25% methylpolysiloxane	VertiBond™ 17	148
G19	25% Phenyl-25% cyanopropylmethylsiloxane	VertiBond™ 225	157
G20	Polyethylene glycol (average MW of 380-420)	VertiBond™ WAX	163
G25	Polyethylene glycol TPA (Carbowax 20M terephthalic acid)	VertiBond™ AqWAX	166
G27	5% Phenyl-95% methylpolysiloxane	VertiBond™ 5, 5ms	142, 146
G28	25% Phenyl-75% methylpolysiloxane	VertiBond™ 20, 35	151, 153
G32	20% Phenylmethyl-80% dimethylpolysiloxane	VertiBond™ 20, 35	151, 153
G35	Polyethylene glycol (Nitroterephthalic acid modified)	VertiBond™ AqWAX	166
G36	1% Vinyl-5% phenylmethylpolysiloxane	VertiBond™ 5, 5ms	142, 146
G38	Phase G1 plus a tailing inhibitor	VertiBond™ 1, 1ms, 1ht	136, 140, 141
G39	Polyethylene glycol (average MW 1,500)	VertiBond™ WAX, WAXms	163
G41	Phenylmethyldimethylsilicone (10% phenyl substituted)	VertiBond™ 5	142
G42	35% Phenyl-65% dimethylpolysiloxane	VertiBond™ 35	153
G43	6% Cyanopropylphenyl-94% dimethylpolysiloxane	VertiBond™ 624, 1301	158, 159
G46	14% Cyanopropylphenyl-86% dimethylpolysiloxane	VertiBond™ 1701	161

