

Packed GC Columns and Components

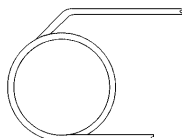
Empty Columns: *Empty Glass Columns*

Empty Glass GC Column, for Varian® 3300 and 3400 (FID, Inj. B to Det. B, On-Column)

Silane treated empty glass column. Fittings are not included.

- X (length of injector arm) = 9.31 in. (236 mm)
- Y (length of detector arm) = 8.0 in. (203 mm)
- S (span, injector to detector) = 6.82 in. (173 mm)

This column fits Varian 3300 and 3400 (FID, injector B to detector B, on-column injection).



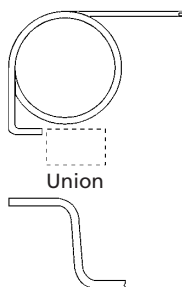
L x O.D. x I.D.	Cat. No.	Qty
6.0 ft (1.8 m) x 1/4 in. x 2.0 mm	20841	1 ea

Empty Glass GC Column, for Varian®, Universal for 3000, 4000, 6000, and Vista™ (On-Column)

Silane treated empty glass column. Fittings are not included.

- X (length of injector arm) = 9.25 in. (235 mm)
- Y (length of detector arm) = 2.0 in. (51 mm)
- S (span, injector to detector) = n/a

This column fits Varian 3000, 4000, 6000, and Vista (on-column injection). The three piece construction (injector arm + coil, union, and detector arm) allows its use in any injector to detector position (A to A, B to B, A to B, and B to A).



L x O.D. x I.D.	Cat. No.	Qty
6.0 ft (1.8 m) x 1/8 in. x 4.0 mm	20847	1 ea
6.0 ft (1.8 m) x 1/4 in. x 2.0 mm	20845	1 ea
6.6 ft (2.0 m) x 1/4 in. x 2.0 mm	21882-U	1 ea

Empty Stainless Steel Columns

For less demanding applications where the inertness of glass is not required, choose more economical stainless steel. Columns can be carefully bent to fit most instruments.

Empty Stainless Steel GC Column

L x O.D. x I.D.	Cat. No.	Qty
6.0 ft (1.8 m) x 1/8 in. x 2.1 mm	13096-U	1 ea
8.0 ft (2.4 m) x 1/8 in. x 2.1 mm	13097-U	1 ea
10.0 ft (3.0 m) x 1/8 in. x 2.1 mm	13098-U	1 ea
12.0 ft (3.6 m) x 1/8 in. x 2.1 mm	13099-U	1 ea
20.0 ft (6.1 m) x 1/8 in. x 2.1 mm	13100-U	1 ea

Packings

We offer small quantities of many ready-to-use packings for those wanting to pack their own columns. Both coated and uncoated packings are available.

Custom Capabilities: The products listed here are only those that are stock items. We have the ability to manufacture many, many more products. If you do not see the item you need, please contact Technical Service at 800-359-3041 (US and Canada), 814-359-3041, or techservice@sial.com

Coated Packings

Coated packings consist of a liquid (gum) stationary phase pre-coated on a solid support. All coated packings are prepared in our in-house manufacturing facility.

Coated GC Packing

Phase	Support	Cat. No.	Qty
0.2% Carbowax 1500	60/80 Carbowax C	11826	15 g
0.2% Carbowax 1500	80/100 Carbowax C	11827	15 g
0.3% Carbowax 20M + 0.1% H ₃ PO ₄	60/80 Carbowax C	11825-U	15 g
4% Carbowax 20M + 0.8% KOH	60/80 Carbowax B	11887	15 g
4% Carbowax 20M	80/120 Carbowax B DA	11889	15 g
5% Carbowax 20M	40/60 Chromosorb T	11993	50 g
5% Carbowax 20M	60/80 Carbowax B	11766	15 g
5% Carbowax 20M	80/120 Carbowax B AW	11812-U	15 g
6.6% Carbowax 20M	80/120 Carbowax B AW	11814	15 g
2.5% Oronite NIW	60/80 Carbowax B	11800-U	15 g
1.5% OV-225 + 1% H ₃ PO ₄	60/80 Carbowax B	1505-U	10 g
0.1% SP-1000	80/100 Carbowax C	11820	15 g
1% SP-1000	60/80 Carbowax B	11815	15 g
3% SP-1500	80/120 Carbowax B	11813-U	15 g
1% SP-1510	60/80 Carbowax B	11809	15 g
0.8% THEED	80/100 Carbowax C	11880-U	15 g

Uncoated Packings

Uncoated packings consist of an adsorbent-type support that does not require a liquid (gum) stationary phase to be coated on it to perform chromatography. We use some of the most commonly used carbon, molecular sieve, and porous polymer adsorbents:

- **Carboxen® Adsorbents:** Carbon molecular sieve materials with through-pore structures, which provides excellent thermodynamic and kinetic properties.
- **Carbosieve® Adsorbents:** Carbon molecular sieve materials with closed-pore structure, which provides very strong retention of small molecules.
- **Molecular Sieve Adsorbents:** Synthetically produced zeolites (naturally occurring aluminosilicate minerals), characterized by pores and internal cavities of extremely uniform dimensions.
- **Tenax Adsorbents:** Widely used porous polymers with unique structures, that provide alternate and desirable adsorption/desorption characteristics compared to other porous polymers.
- **HayeSep Adsorbents:** Second generation porous polymer materials that exhibit minimal shrinkage and monomer bleed.
- **Porapak Adsorbents:** These are first generation porous polymer materials.
- **Chromosorb Adsorbents:** These polyaromatic cross-linked porous polymers have uniform rigid structures. We do not offer Chromosorb adsorbents for sale in bulk. These materials are only available in columns.