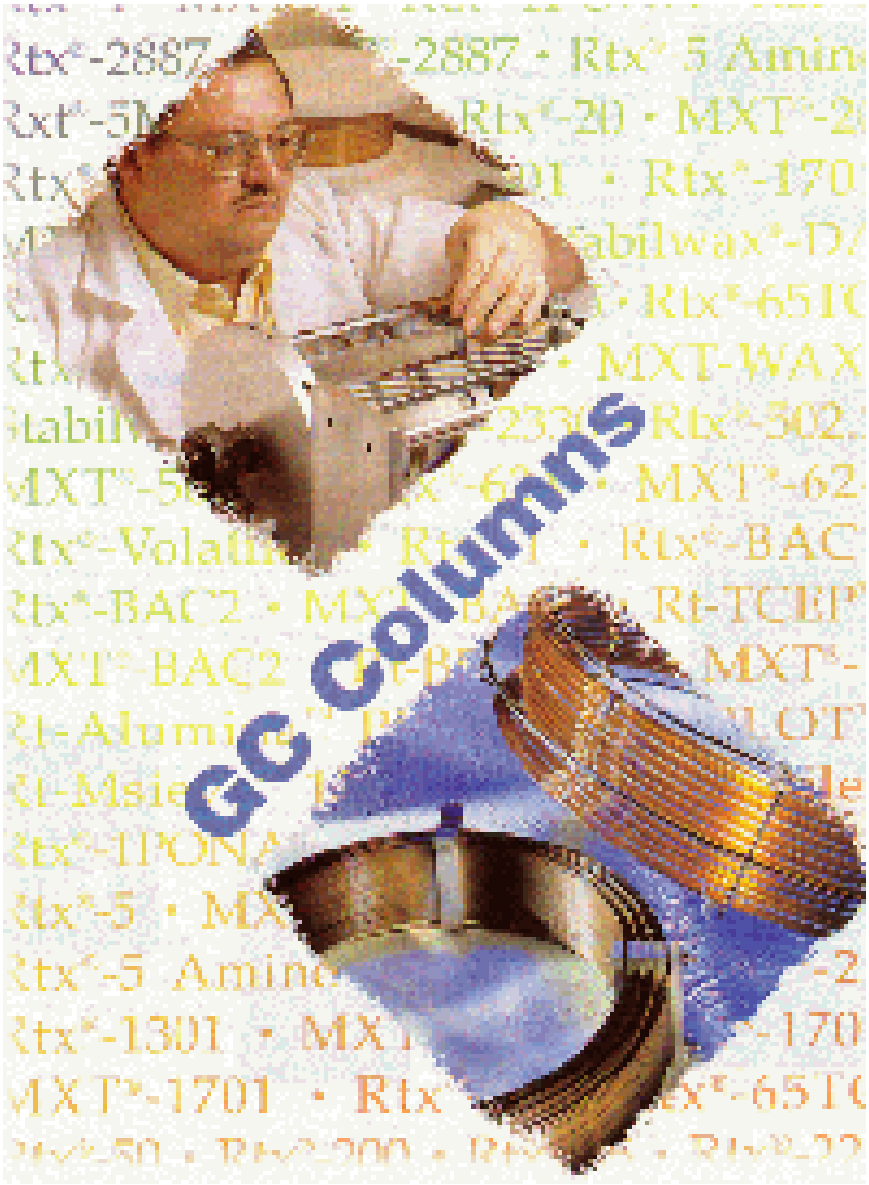
Capillary GC Columns



Fused Silica MXT (Silcosteel)

Widest Selection of Columns Available from ANY Manufacturer

OVER 1200 Different Sizes/Types

IDs from 0.10, 0.18, 0.25, 0.32, 0.53mm
Length from 10, 20meter 15, 30, 60, 105meter
Film Thickness from 0.10, 0.20, 0.25, 0.50, 1.00, 1.50, 3.00, 5.00 (and 7.00um)
But depends on phase and ID and column type
(see detailed catalog)

How do you sort ALL these possible types out ?
How do you optimise the column selection ?
What about maximising the performance of the selected column ?
USE EzGC / Pro EzGC
Method Development Software

Restek Australian Distributors

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❒ Table of Contents for GC Columns by Phase

That* sets *Restek apart from the competition ?

Quality and Innovation you can count on!

❒ *High Quality Fused Silica Tubing*

A columns quality is only as good as the materials from which it is manufacturcd. Restek uses only high quality fused silica tubing for our Rtx® capillary columns. We constantly monitor the strength of our tubing by using a manual winding system which assures that every meter of every column is checked. Our tubing suppliers often say, “If our tubing is strong enough for Restek. it's strong enough for anybody.”

❒ *Innovative Cage Design*

To keep your column safe we have designed a stainless steel cage to completely surround the column. The column is suspended in the cage using high temperature string that acts as a shock absorber. At no time does the fused silica tubing come into contact with the metal support of the cage. Spontaneous breakage can occur when fused silica tubing contacts sharp meta] edges on the column cage. Our fused silica column cage is 7.65" (19.4 cm) in diameter and fits into virtually any GC oven.

❒ *Unbreakable Metal Capillary Columns*

However. we realize that there are some harsh environments or special applications where fused silica tubing may not be the ideal material. For these circumstances Restek offers MXT capillary columns. MXT® columns are made from unbreakable, thin wall, stainless steel that has been treated with our Silcosteel process. This process deposits a submicron layer of flexible fused silica on the inside of the tubing giving it the same inertness as an Rtx® column, but with the ruggedness of stainless steel. MXT® columns are caged in small diameter coils that are ideal for portable or process control GCs.

Restek capillary columns are manufactured under US patent 4,293,415, licensed by Hewlett-Packard Company.

❒ High Quality Polymers

In addition to the tubing material, high quality polymers used for deactivation and stationary phases is also necessary for making the world's best capillary columns. MI of the polymers that go into Restek's Rtx and MXT columns are synthesizcd to exacting standards in our own laboratory to ensure the highest quality and consistency. Any residual catalyst, which can cause degradation and increased bleed. is removed from the polymer. The polymer is then carefully fractionated to remove low molecular weight fragments. This provides a tight mono-modal distribution and further reduces column bleed. Every polymer is fully characterized to ensure long-term reproducibility. Characterization testing includes Refractive
Index (RI), Fournier Transform Infrared Spectroscopy (FTIR), Kovats Retention Indices, % crosslinking, efficiency, and a five-day thermal bake-out to ensure column longcvity. Each polymer lot is tracked in an extcnsive database for future reference and guarantees that the column you buy today will meet the same specifications of the column you bought last wcck

❒ Thorough Testing of Every Column

The final quality assurance test on every Restek capillary column confirms that each column has the necessary inertness and efficiency. Each column is also evaluated for bleed at its maximum operating temperaturc to ensure that e'~ery column exhibits thc lowest bleed possible.

❒ Functional, Enviromentally Safe Packaging

The Restek difference is apparent before the column box is even opened. Instead of a logo or an advertisement on the top of the compact. recyclable corrugated cardboard column box, we ve printed a useful Column 'iervice Record. This allows thc analyst to easily track column installation and GC maintenance for troubleshooting purposes. By having the column history on hand for instant review, quicker decisions can be made and guesswork eliminated.

Neil Mosesman
Director of New Products & Method Development

Rick Crago
Fused Silica Production Supervisor

Kristi Sellers
FS Manufacturing Chemist

Reduce, Resuse Recycle

In response to Restek's efforts to reduce and recycle. we were the proud recipicnts of the **1995 Governors Waste Minimization Award** sponsored by the Pennsylvania Department of Environmental Protcction. This award recognizes companies for their accomplishments in preventing or reducing the waste in Pennsylvania.

Restek Australian Distributors

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