



### Rtx-225

#### □ Rtx-225

- Ideal for the analysis of FAMES, sugar derivatives, and flavor compounds.
- Crossbonded stationary phase results in reduced bleed, increased column lifetime, and solvent rinsability.
- Similar to DB-225 and HP-225 columns.

Cyanopropyl containing siloxane phases, such as the Rtx-225, have proven useful for a wide variety of applications. Although the Rtx-225 phase is slightly less polar than the bonded polyethylene glycol (PEG) phases, it can be used for many of the same applications. Some popular applications for the Rtx-225 are the analysis of fatty acid methyl esters, sugar derivatives, and food and flavor analyses.

Improvements to the Rtx-225 polymer have resulted in increased thermal stability, reduced bleed, and improved inertness. The Rtx-225 enjoys a 20C thermal stability advantage over other 225 columns because of the unique combination of our polymer synthesis technology and a proprietary siloxane deactivation that ensures perfect interfacial compatibility. Most of our competitors use a Carbowax deactivation layer that is not fully compatible with a cyanopropyl siloxane polymer and results in adsorption, tailing of active compounds, and lower efficiency. Restek's synthesis chemists developed new deactivation chemistry to improve the quality and reproducibility of the Rtx<sup>6</sup>-225. The polymer is fully characterized to ensure long-term reproducibility and column-to-column consistency. Characterization testing includes RI, FTIR, Kovats Indices, % crosslinking, efficiency, and a five-day thermal hake-out to ensure column longevity. New batches of polymers are used only when they meet Restek's stringent QA tests, and each lot is subsequently tracked in an extensive data base for future reference.

Because of Restek's proprietary deactivation technology, Rtx®-225 columns exhibit excellent inertness for most reactive compounds.

**Applications:**  
FAMES, carbohydrates, neutral sterols

**Note :** Strongly acidic compounds should be excluded since all cyano phases may show nonlinearity at ppm levels

#### Rtx-225 (Fused Silica)

(Crossbond® 50% cyanopropyl 50% phenylmethyl polysiloxane)  
Stable to 260C.

ID	df(um)	temp. limits	15-Meter	30-Meter	60-Meter
0.25mm	0.10	40 to 220/240 <sup>0</sup> C	14005	14008	14011
	0.25	40 to 220/240 <sup>0</sup> C	14020	14023	14026
	0.50	40 to 220/240 <sup>0</sup> C	14035	14038	14041
0.32mm	0.10	40 to 220/240 <sup>0</sup> C	14006	14009	14012
	0.25	40 to 220/240 <sup>0</sup> C	14021	14021	14024
	0.50	40 to 220/240 <sup>0</sup> C	14036	14039	14042
	1.00	40 to 200/220 <sup>0</sup> C	14051	14054	14057
0.53mm	0.10	40 to 200/220 <sup>0</sup> C	14007	14010	14013
	0.25	40 to 200/220 <sup>0</sup> C	14022	14025	14028
	0.50	40 to 200/220 <sup>0</sup> C	14037	14040	14043
	1.00	40 to 200/220 <sup>0</sup> C	14052	14055	14058

*The maximum temperatures listed are for 15- and 30-meter lengths.  
Longer lengths may have a slightly reduced maximum temperature.*



Tony Cepullio  
Vice President  
Controller

**Restek**  
Australian  
Distributors

**Chromalytic Technology Pty Ltd**

Fax : +61 3 9761 1169 Phone : +61 3 9762 2034

E-mail : jimjeffs@chromtech.net.au

**Copyright Restek Corp.**  
and **Chromtech** : 1997  
- All rights reserved