



# NEW Rxi<sup>®</sup>-1ms

The Ultimate High Performance Fused  
Silica Capillary Column

- **Unsurpassed inertness**  
lower detection limits for active compounds
- **Ultra Low Bleed**  
excellent for low level GC/MS analysis
- **State of the art manufacturing process**  
reproducible performance, column to column

See details online at [www.restek.com/rxi](http://www.restek.com/rxi)



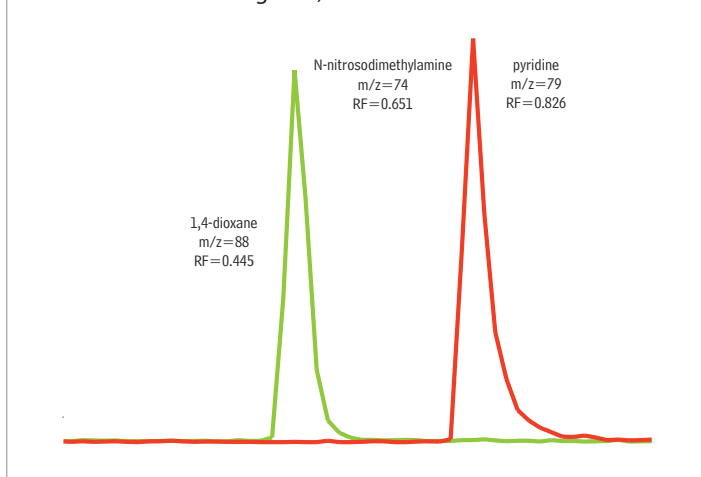
Turning Visions into Reality<sup>™</sup>

[www.restek.com](http://www.restek.com)

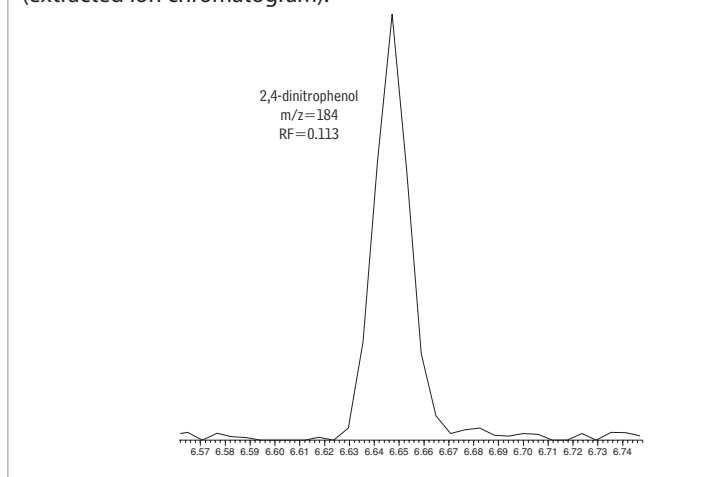
## Excellent Inertness

Analysis of many acidic or basic compounds requires the inertness of an Rxi™ column. We use 2,4-dinitrophenol (acidic) and pyridine (basic) to evaluate the inertness of these columns. Surface activity in the column is revealed by the peak shapes and response factors for these analytes. The test is very stringent, with an on-column amount of 0.5ng, each compound. Rxi™-1ms columns' excellent inertness allows acidic or basic compounds to be analyzed under the same conditions, as shown here.

**Figure 1** Basic analytes on an Rxi™-1ms column (0.5ng each; extracted ion chromatograms).



**Figure 2** Acidic analyte at 0.5ng on an Rxi™-1ms column (extracted ion chromatogram).



### Rxi™-1ms (nonpolar phase, Crossbond® 100% dimethyl polysiloxane)

- General purpose columns for drugs of abuse, essential oils, hydrocarbons, pesticides, PCB congeners or (e.g.) Aroclor® mixes, sulfur compounds, amines, solvent impurities, simulated distillation, oxygenates, gasoline range organics (GRO), refinery gases.
- Temperature range: -60°C to 330/350°C (330°=bleed tested temperature/350°=maximum operating temperature).
- Low bleed - improved signal to noise ratio, for better sensitivity and mass spectral integrity.
- Equivalent to USP G2 phase.

### Rxi™-1ms (fused silica)

(Crossbond® 100% dimethyl polysiloxane)

ID	df (µm)	temp. limits	15-Meter	30-Meter	60-Meter	
0.25mm	0.25	-60 to 330/350°C	13320	13323	13326	
	0.50	-60 to 330/350°C	13335	13338	13341	
	1.00	-60 to 330/350°C	13350	13353	13356	
0.32mm	0.25	-60 to 330/350°C	13321	13324	13327	
	0.50	-60 to 330/350°C	13336	13339	13342	
	1.00	-60 to 330/350°C	13351	13354	13357	
0.53mm	0.50	-60 to 330/350°C	13337	13340		
	1.00	-60 to 330/350°C	13352	13355		
	1.50	-60 to 330/350°C	13367	13370		
ID	df (µm)	temp. limits	12-Meter	20-Meter	25-Meter	50-Meter
0.18mm	0.18	-60 to 330/350°C		13302		
0.20mm	0.33	-60 to 330/350°C	13397		13398	13399



similar phases

Replaces: DB-1, DB-1ms, HP-1, HP-1ms, Ultra-1, SPB-1, Equity-1, ZB-1, VF-1ms, Rtx-1, Rtx-1ms

Restek Trademarks:  
Crossbond, Rtx, Turning Visions into Reality,  
Rxi, Restek logo.

Other Trademarks:  
Aroclor (Monsanto Co.)



**Restek U.S.** • 110 Benner Circle • Bellefonte, PA 16823 • 814-353-1300 • 800-356-1688 • fax: 814-353-1309 • [www.restek.com](http://www.restek.com)  
**Restek France** • phone: 33 (0)1 60 78 32 10 • fax: 33 (0)1 60 78 70 90 • e-mail: [restekfr@club-internet.fr](mailto:restekfr@club-internet.fr)  
**Restek Ireland** • phone: 44 2890 814576 • fax: 44 2890 814576 • e-mail: [restekeurope@aol.com](mailto:restekeurope@aol.com)  
**Thames Restek U.K. LTD** • phone: 44 1494 563377 • fax: 44 1494 564990 • e-mail: [sales@thamesrestek.co.uk](mailto:sales@thamesrestek.co.uk)  
**Restek GmbH** • phone: +49 (0) 6172 2797 0 • fax: +49 (0) 6172 2797 77 • e-mail: [info@restekgmbh.de](mailto:info@restekgmbh.de)

Lit. Cat.# 580075-INT

© 2006 Restek Corporation.

