

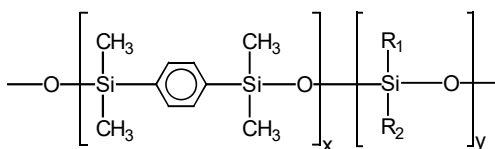


# Teknokroma Capillary Columns

## Meta.X5

**Silphenylene phase, selectivity similar to TRB-5, bonded and crosslinked phase.**

- Column choice for the analysis of semivolatile compounds with GC-MS
- Polymer synthesis designed and developed by scientists at Teknokroma
- Selectivity similar to TRB-5
- New generation of column incorporates arylene groups in the polymer structure, improves thermal stability, reduces bleeding level and provides optimal resolution for aromatic compounds
- Manufacturing procedures of this Teknokroma column guarantees maximal inertness and minimal bleeding level



Structure of Polysiloxane containing p-silphenylene

### Meta.X5 Equivalent Phase

**Restek:** Rxi-5Sil MS  
**Agilent/JW:** DB.5 MS, HP-5TA, CP-SIL8CB MS, VF-5MS  
**Supelco:** MDN-5, SLB-5MS  
**Quadrex:** 007-5MS  
**SGE:** BPX-5  
**Phenomenex:** ZB-5MS

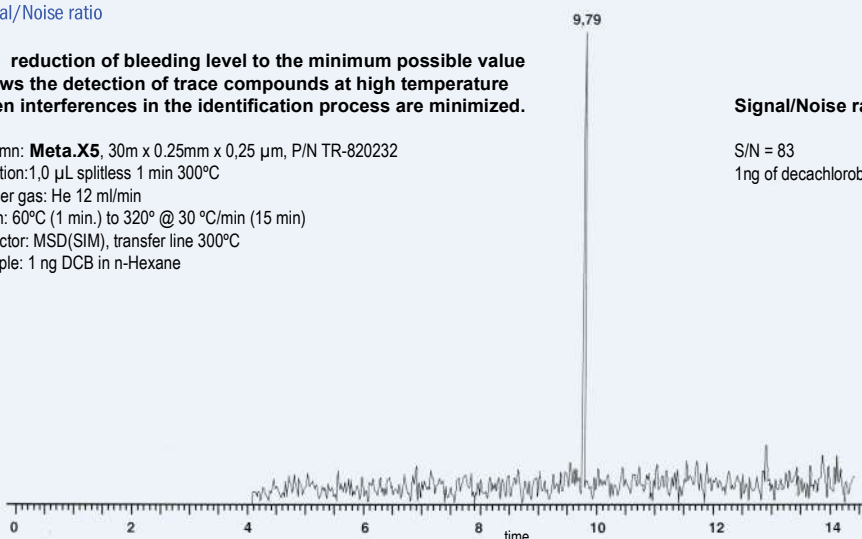
## Meta.X5

Internal Diam. (mm)	Length (m)	Film Thickness (µm)	Temp. limits (°C)	Part. N°. (P/N)
0,18	20	0,18	-60 to 325/350	TR-820984
	20	0,36	-60 to 325/350	TR-823484
	40	0,18	-60 to 325/350	TR-8209C4
0,20	12	0,33	-60 to 325/350	TR-8233B9
	25	0,33	-60 to 325/350	TR-823329
	50	0,33	-60 to 325/350	TR-823359
0,25	15	0,10	-60 to 325/350	TR-820112
	15	0,25	-60 to 325/350	TR-820212
	15	0,50	-60 to 325/350	TR-820512
	15	1,00	-60 to 325/350	TR-821012
	30	0,10	-60 to 325/350	TR-820132
	30	0,25	-60 to 325/350	TR-820232
	30	0,50	-60 to 325/350	TR-820532
	30	1,00	-60 to 325/350	TR-821032
	60	0,10	-60 to 325/350	TR-820162
60	0,25	-60 to 325/350	TR-820262	
0,32	15	0,10	-60 to 325/350	TR-820113
	15	0,25	-60 to 325/350	TR-820213
	15	0,50	-60 to 325/350	TR-820513
	15	1,00	-60 to 325/350	TR-821013
	30	0,10	-60 to 325/350	TR-820133
	30	0,25	-60 to 325/350	TR-820233
	30	0,50	-60 to 325/350	TR-820533
	30	1,00	-60 to 325/350	TR-821033
	60	0,10	-60 to 325/350	TR-820163
60	0,25	-60 to 325/350	TR-820263	
0,53	15	0,50	-60 to 320/340	TR-820515
	15	1,00	-60 to 320/340	TR-821015
	15	1,50	-60 to 320/340	TR-821515
	30	0,50	-60 to 320/340	TR-820535
	30	1,00	-60 to 320/340	TR-821035
	30	1,50	-60 to 310/330	TR-821535

### Signal/Noise ratio

The reduction of bleeding level to the minimum possible value allows the detection of trace compounds at high temperature when interferences in the identification process are minimized.

Column: **Meta.X5**, 30m x 0.25mm x 0.25 µm, P/N TR-820232  
 Injection: 1.0 µL splitless 1 min 300°C  
 Carrier gas: He 12 ml/min  
 Oven: 60°C (1 min.) to 320° @ 30 °C/min (15 min)  
 Detector: MSD(SIM), transfer line 300°C  
 Sample: 1 ng DCB in n-Hexane



### Signal/Noise ratio

S/N = 83  
 1ng of decachlorobiphenyl (DCB)

TKG 1116

