

Restek GCxGC Column Combination Guide

To achieve ideal results in a GCxGC analysis, it is imperative that your primary and secondary columns feature orthogonal phases capable of producing differing separations. Use the chart below to find the perfect combination of Restek columns to maximize the effectiveness of your GCxGC system.

Application Area	Primary Column		Secondary Column	
	Phase	Selectivity	Phase	Selectivity
Petrochemical	Rxi®-1ms	Non-polar	Rxi®-17Sil MS	Mid-polar, aromatic selective
Petrochemical	Rxi®-5Sil MS	Non-polar	Rxi®-17Sil MS	Mid-polar, aromatic selective
PAHs, environmental	Rxi®-17Sil MS	Mid-polar, aromatic selective	Rxi®-1ms	Non-polar
PAHs, environmental	Rxi®-17Sil MS	Mid-polar, aromatic selective	Rxi®-5Sil MS	Non-polar
PCBs, PBDEs, PAHs, environmental	Rxi®-XLB	Non-polar	Rxi®-17Sil MS	Mid-polar, aromatic selective
Mono-ortho, coplanar PCBs	Rxi®-1ms	Non-polar	Rxi®-XLB	Planar selective
Mono-ortho, coplanar PCBs	Rxi®-5Sil MS	Non-polar	Rxi®-XLB	Planar selective
Pesticides, nitroaromatics, halogenated compounds	Rxi®-1ms	Non-polar	Rtx®-200	Mid-polar, electronegative selectivity
Pesticides, nitroaromatics, halogenated compounds	Rxi®-5Sil MS	Non-polar	Rtx®-200	Mid-polar, electronegative selectivity
Pesticides, nitroaromatics, halogenated compounds	Rxi®-XLB	Non-polar	Rtx®-200	Mid-polar, electronegative selectivity
Flavors, fragrances	Rxi®-1ms	Non-polar	Stabilwax®	Polar
Flavors, fragrances	Rxi®-5Sil MS	Non-polar	Stabilwax®	Polar
Flavors, fragrances	Stabilwax®	Polar	Rxi®-1ms	Non-polar
Flavors, fragrances	Stabilwax®	Polar	Rxi®-5Sil MS	Non-polar

To order Restek GCxGC columns and accessories or to get additional assistance in choosing a column pair, visit www.restek.com/gcxgc

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Lit. Cat.# GNB1585-UNV

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Printed in the U.S.A.

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