

■ *Rtx-2887/MXT-2887*

- Exceed all performance requirements for ASTM Test Method D-2887.
- Crossbond stationary phase results in longer lifetimes and shorter conditioning, and allows solvent rinsing.
- MXT-2887 are rugged fused-silica-lined stainless steel columns that eliminate spontaneous breakage and tubing brittleness caused by high operating temperatures.
- Similar to DB-2887, Petrocol 2887, Petrocol EX2887.

Simulated distillation (SimDist) is a temperature-programmed analysis that determines the boiling range distribution of petroleum samples using gas chromatography. ASTM Test Method D-2887 is a commonly used method for petroleum products with a final boiling point less than 538°C (excluding gasoline). Although this technique has been used for more than 25 years with packed columns, ASTM D-2887 is currently under revision to permit the use of 0.53mm capillary columns. There are important column and instrument parameters that must be optimized to meet the criteria for column resolution, bleed, and peak skewing specified in ASTM Method D-2887.

The Rtx-2887 and MXT-2887 column dimensions, stationary phase, and film thickness have been optimized to exceed the resolution and skewing factor requirements specified in the current revision of the ASTM test method. Each column is individually tested with a hydrocarbon mixture to guarantee a stable baseline with low bleed and reproducible retention times.

The Crossbond methyl silicone stationary phase has increased stability compared to packed columns, resulting in stable baselines and shorter conditioning times. The Rtx-2887/MXT-2887 can be rejuvenated by solvent-rinsing. This ensures a column with run-to-run reproducibility and extended lifetime.

Applications: simulated distillation.

Rtx-2887 (Fused Silica)

(Crossbond 100% dimethyl polysiloxane - for Sim Dist) Stable to 360°C

ID	df @mm)	temp. limits	lo-Meter
0.53mm	2.65	-60 to 360°C	10199

MXT-2887 (Silcosteel™)

(Crossbond@ 100% dimethyl polysiloxane - for Sim Dist) Stable to 400+°C

ID	df (pm)	temp. limits	lo-Meter
0.53mm	2.65	-60 to 400+°C	70199

Restek's **MXT[®] columns**

rugged, flexible,
fused-silica-lined,
stainless steel



Lori Bitzer
Fused Silica
Manufacturing Chemist



Kim Holliday
Customer Response
Team