

GC consumables

Routine GC maintenance reference schedule

Consumables and when to replace them

Reference guide

Maximize GC and GC-MS system performances, minimize system downtime and troubleshooting.

Product	Recommended cat. no.	Typical replacement frequency
Septas 	31303233 (BTO, glass jar)	Syringe needle dependent— weekly . Replace every 100 injections or weekly.
	31303233-BP (BTO, blister pack)	
Liners 	453A2265/453A2265-UI (Split with wool)	Sample type and cleanliness dependent— weekly . Inspect daily.
	453A1255/453A1255-UI (Precision split with wool)	
	453A1345/453A1345-UI (Splitless without wool)	
	453A1925/453A1925-UI (Splitless with wool)	Replace when performance degrades (i.e. peak's response, peak shapes), dirt is observed or weekly
	453A1335 (Headspace, P&T, SPME fiber)	
	453A0415-UI (SPME arrow)	
Liner rings 	29001320 (for Split/splitless liner)	Replace with each liner change or every 5 liners
	29001318 (for PTV liner)	
Base seals 	290GA082 (Splitless injection)	Sample type and cleanliness dependent— 3-6 months . Replace when performance degrades, or dirt is observed, or replace every 3-6 months
	290GA083 (Split or splitless injection)	
Syringes 	36500525 (AI/AS autosampler, 10 µL)	Sample type and cleanliness dependent— 3 months . Inspect before use.
	365D3741 (AI/AS autosampler, 10 µL, gas tight)	
	365D0291-SM (Thermo Scientific™ TriPlus™ RSH SMART autosampler, 10 µL)	Replace when bended, clogged, the contaminants cannot be cleaned, or replace every 3 months. Avoid unnecessary movement of plungers when the syringe is dry.
	365D0311-SM (TriPlus RSH SMART autosampler, 10µL, gas tight)	
	365L2321-SM (TriPlus RSH SMART autosampler, 2.5 mL, headspace)	
Gas filters 	60180-824 (Indicating triple cartridge)	Gas purity/grade dependent— 6-12 months . Replace when indicating start to change color or every 6-12 months if using non-indicating traps.
	60180-825 (Indicating triple cartridge, He preconditioned)	
	60180-805 (Triple inline)	
GC columns 	TG-1MS (Non-polar, i.e., 26099-1420).	Inspect weekly.
	TG-5SILMS (Low-polar, i.e., 26096-1420)	Replace when it falls below performance requirements (i.e. resolution, retention time, peak symmetry, sensitivity, etc.), or when trimming and/or conditioning no longer recover the performance.
	TG-624SILMS (Mid-polar, i.e., 26059-3390)	
	TG-1701MS (Mid-polar, i.e., 26090-1420)	
	TG-17SILMS (Mid-polar, i.e., 26072-1420)	For more columns and part number details visit thermofisher.com/gccolumns
	TG-WAXMS (Polar, i.e., 26088-1420)	
Ferrules 	290GA139 (Graphite for SSL injectors and non-MS detectors, 0.1-0.32 mm ID column)	Replace when installing columns.
	29053488 (Graphite, for PTV injectors, 0.1-0.25 mm ID column)	
	290VA191* (Graphite/vespel, for SSL injectors and detectors, 0.1-0.25 mm ID column)	
	290VA192* (Graphite/vespel, for SSL injectors and detectors, 0.32 mm ID column)	
	290VT221* (SCP-5000, for MS detectors, 0.1-0.25 mm ID column)	
	29033496** (Graphite/vespel, for MS detectors, 0.1-0.25 mm ID column)	

NOTE:
*use with column spring loaded nut (1R120434-0010) for MS detectors
**used with column nut (290BT240) for MS detector

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