

GC consumables

Routine GC maintenance reference schedule

Consumables and when to replace them

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



Liners

Sample type and cleanliness dependent – **weekly**. Inspect daily and replace it when performance degrades (i.e. peak's response, peak shapes), dirt is observed, or weekly.

Recommended cat. no.	Description
10415923/15457980	Split with wool
10253753/15408000	Precision split with wool
10140893/15417990	Splitless without wool
10100993/15447990	Splitless with wool
10639485	Headspace, P&T, SPME fibre
17644145	SPME arrow
15448020	PTV baffled



Liner rings

Replace with **each liner change** or **every 5 liners**.

Recommended cat. no.	Description
15398384	Split/splitless liner
13415099	PTV liner



Base seals

Sample type and cleanliness dependent – **3 to 6 months**. Replace when performance degrades, or dirt is observed, or replace every 3 to 6 months.

Recommended cat. no.	Description
10548605	Splitless injection
10219174	Split or splitless injection



Syringes

Sample type and cleanliness dependent – **3 months**. Inspect before use. Replace when bended, clogged, the contaminants cannot be cleaned, or replace every 3 months. Avoid unnecessary movement of plungers when the syringe is dry.

Recommended cat. no.	Description
10374653	AS/AI autosampler, 10 µL
10781534	AS/AI autosampler, 10 µL, gas tight
17617065	Thermo Scientific™ TriPlus™ RSH SMART autosampler, 10 µL
17637065	TriPlus RSH SMART autosampler, 10µL, gas tight
17677085	TriPlus RSH SMART autosampler, 2.5 mL, headspace



Septas

Syringe needle dependent – **weekly**.
Replace every 100 injections or weekly.



Gas filters

Gas purity/grade dependent –
6 to 12 months. Replace when
indicating start to change colour,
or every **6 to 12 months** if using
non-indicating traps.



GC columns

Inspect **weekly**. 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.



Ferrules

Replace **when installing columns**.

Recommended cat. no.	Description
12683166	BTO, glass jar
15340431	BTO, blister pack

Recommended cat. no.	Description
10213423	Indicating triple cartridge
10019682	Indicating triple cartridge, He preconditioned
10213183	Triple inline

Recommended cat. no.	Description
11800463	Non-polar, i.e., 26099-1420
11810453	Low-polar, i.e., 26096-1420
10280385	Mid-polar, i.e., 26059-3390
10310835	Mid-polar, i.e., 26090-1420
13498018	Mid-polar, i.e., 26072-1420
10468104	Polar, i.e., 26088-1420

Recommended cat. no.	Description
10756334	Graphite for SSL injectors and non-MS detectors, 0.1-0.32 mm ID column
10756144	Graphite, for PTV injectors, 0.1-0.25 mm ID column
10120513*	Graphite/vespel, for SSL injectors and detectors, 0.1-0.25 mm ID column
1077482*	Graphite/vespel, for SSL injectors and detectors, 0.32 mm ID column
16834316*	SCP-5000, for MS detectors, 0.1-0.25 mm ID column
10466744**	Graphite/vespel, for MS detectors, 0.1-0.25 mm ID column

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

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