

SHIMSEN GC Consumables Guidance



CATALOGUE



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Shimadzu original parts

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1.1 Premium Syringe

Shimadzu Premium syringe reduces the use of adhesive in the flow path, enhancing the durability of the needle while also minimizing the risk of cross-contamination between the sample and adhesive.



- Better solvent tolerance
- Wider operating temperature range
- Smoother operation

P/N	Description	Volume	Compatible instrument
S221-34618	10F-S-0.63 10UL SYRINGE	10ul	AOC-20i
S221-37282-02	10F-S-0.63/0.47D 10UL SYRINGE	10ul	AOC-20i
S221-45243	50F-S-0.63 50UL SYRINGE	50ul	AOC-20i
S221-45244	250F-S-GT-0.63 250UL SYRINGE	250ul	AOC-20i
S221-74469	10F-S-GT-0.63 10UL SYRINGE	10ul	AOC-20i
S221-75173	5F-S-0.63 5UL SYRINGE	5ul	AOC-20i
S221-75174	10R-S-GT-0.63 10UL SYRINGE	10ul	AOC-20i
S221-75175	10F-AOC5-5/0.47C	10ul	AOC-5000
S221-75175-01	10F-AOC55/0.63C	10ul	AOC-5000
S221-75175-02	10F-AOC5-GT-5/0.47C	10ul	AOC-5000
S221-75175-03	10F-AOC5-GT-5/0.63C	10ul	AOC-5000
S221-75176	10F-AOC5-8/0.47C	10ul	AOC-5000
S221-75176-01	10F-AOC5-8/0.63C	10ul	AOC-5000
S221-75177	25F-AOC5-GT-0.63C	25ul	AOC-5000
S221-75178	1MF-AOC5-GT-HS-5/0.47H	1ml	AOC-5000
S221-75178-01	1MF-AOC5-GT-HS-5/0.63H	1ml	AOC-5000
S221-75179	2.5MF-AOC5-GT-HS-5/0.47H	2.5ml	AOC-5000
S221-75179-01	2.5MF-AOC5-GT-HS-5/0.63H	2.5ml	AOC-5000

P/N	Description	Volume	Compatible instrument
S221-75170-01	10F-GT 10UL SYRINGE	10ul	Manual
S221-75171	25F-GT 25UL SYRINGE	25ul	Manual
S221-75172	50F-GT 50UL SYRINGE	50ul	Manual
S221-75172-01	100F-GT 100UL SYRINGE	100ul	Manual
S221-75172-02	250F-GT 250UL SYRINGE	250ul	Manual

Shimadzu original parts

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Premium Syringe | Appendix 1: Shimadzu GC Inlet Consumables Correspondence Table



Appendix 1: Shimadzu GC Inlet Consumables Correspondence Table

Product type	P/N	Description	Compatible instrument
Septa	201-35584	RUBBER SEPTUM INJ PORT 20PKT	Shimadzu GCs
	221-48972-91	LL SEPTUM 20pcs	Shimadzu GCs
	221-48398-91	HT SEPTUM 20pcs	Shimadzu GCs
	221-76650-01	SEPTUM SET,(CRS) 25/PKT	Shimadzu GCs
	S227-35004-01	Premium Green Septa (50pc)	Shimadzu GCs
O-Ring	036-11203-84	O-RING 4D P5	Shimadzu GCs
	S227-35005-01	O-ring for Insert (10pc)	Shimadzu GCs
	670-11518-84	O-RING,BYTON P5,5PCS	Shimadzu GCs
	221-47222-91	GRAPHITE O-RING SPPIT 4pcLESS	Shimadzu GCs
	221-48393-91	GRAPHITE O-RING SPRIT 4pc	Shimadzu GCs
Liner	221-41444	Glass insert spl-17 split	Shimadzu GC-2014
	221-41444-84	GLASS INSERT SPLIT 5PCS	Shimadzu GC-2014
	S221-75195	LINER GC2014 3.4MMID WWOOL GN PKT5	Shimadzu GC-2014
	221-41444-01	GLASS INSERTS SPL-2010	Shimadzu GC-2010 2010Plus
	225-20803-01	INSERT SPLIT DEACTIVATED TREAT 5pcs	Shimadzu GC-2010 2010Plus
	S221-75193	LINER GC2010 3.4MMID GN WWOOL PKT5	Shimadzu GC-2010 2010Plus
	S227-35007-01	Deactivated Insert with wool for Split (5pc)	Shimadzu GC-2010Pro 2030
	221-48335-01	CLASS INSERT SLESS WBI	Shimadzu GC-2010 2014
	221-48876-02	INSERT SILANIZE 5PK	Shimadzu GC-2010 2014
	221-48876-03	INSERT SLESS DEACTIVATED TREAT 5pcs	Shimadzu GC-2010 2014
	221-48876-05	INSERT 5PCS PK	Shimadzu GC-2010 2014
	S221-75197	INSERT SPLITLESS/WBI WWOOL PKT5	Shimadzu GC-2010 2014
S227-35008-01	Deactivated Insert with wool for Splitless (5pc)	Shimadzu GC-2030	
Graphite Ferrule	221-32126-05	FERRULE SET 10个/包	Shimadzu GCs
	221-32126-08	FERRULE SET 10个/包	Shimadzu GCs
Syringe	S227-35002-01	0.5BNR-S-0.47/0.63C PL SYRINGE	Shimadzu AOC-20/30 series
	S221-75173	5F-S-0.63 5UL SYRINGE	Shimadzu AOC-20/30 series
	227-35401-01	Xtra life micro-syringe, 5uL	Shimadzu AOC-20/30 series
	S221-34618	10F-S-0.63 10UL SYRINGE	Shimadzu AOC-20/30 series
	227-35400-01	Xtra life micro-syringe, 10uL	Shimadzu AOC-20/30 series
	S221-74469	10F-S-GT-0.63 10UL SYRINGE	Shimadzu AOC-20/30 series
	S221-75174	10R-S-GT-0.63 10UL SYRINGE	Shimadzu AOC-20/30 series
	221-37282-02	MICROSYRINGE 10ANS0.6347-23	Shimadzu AOC-20/30 series
	S221-45243	50F-S-0.63 50UL SYRINGE	Shimadzu AOC-20/30 series
	S221-45244	250F-S-GT-0.63 250UL SYRINGE	Shimadzu AOC-20/30 series

SHIMSEN GC Consumable for non-Shimadzu GCs

Brand-new SHIMSEN, One-stop Solution

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Syringe | Liner | O-ring | Septa | Ferrule | Appendix 2: Recommended products for GC

- In GC analysis, the GC column serves as a crucial analytical tool, playing a pivotal role in the separation of target components. However, sometimes the actual analytical issues are related to the GC column, while others are associated with the injection port.
- Failure to promptly replace the injection port consumables may lead to issues such as sample degradation, inconsistent results, and contamination. Therefore, timely replacement and maintenance of injection port consumables are crucial for the stable operation of GC.
- The SHIMSEN GC consumables are served for the daily operation and maintenance of GCs, offering syringes, septa, O-rings, liners, and ferrules for non-Shimadzu instruments. It aims to enhance the stability of analytical operations with cost-effective products.



2.1 Syringe

- SHIMSEN GC Consumables provide syringe for automatic liquid sampler and gas-tight syringe for manual sampling.
- Syringe with fixed needle and diameters of 23/26/23-26 are available. The shape of the needle is cone.

P/N	Description	Compatible sampler instrument
380-06220-20	SHIMSEN Syringe 10 µL Fixed needle 23/42/cone 1-pk	Agilent 7693A 7683 7673 7650A 6850ALS
380-06220-21	SHIMSEN Syringe 10 µL Fixed needle 26/42/cone 1-pk	Agilent 7693A 7683 7673 7650A 6850ALS
380-06220-22	SHIMSEN Syringe 10 µL Fixed needle 23-26/42/cone 1-pk	Agilent 7693A 7683 7673 7650A 6850ALS
380-06220-23	SHIMSEN Syringe 5 µL Fixed needle 23-26/42/cone 1-pk	Agilent 7693A 7683 7673 7650A 6850ALS
380-06220-24	SHIMSEN Gas-tight Syringe 0.5 µL Removable needle 26/42/cone 1-pk	Manual gas-tight syringe
380-06220-25	SHIMSEN Gas-tight Syringe 0.5 µL Removable needle 23/42/cone 1-pk	Manual gas-tight syringe
380-06220-26	SHIMSEN Gas-tight Syringe 0.5 µL Removable needle 23-26/42/cone 1-pk	Manual gas-tight syringe
380-06220-27	SHIMSEN Gas-tight Syringe 1 µL Removable needle 23/42/cone 1-pk	Manual gas-tight syringe
380-06220-28	SHIMSEN Gas-tight Syringe 10 µL Removable needle 23/42/cone 1-pk	Manual gas-tight syringe
380-06220-46	SHIMSEN Syringe 5 µL Fixed needle 26/50/cone 1-pk	Thermo AI/AS 1310 AI/AS 1610 TriPlus
380-06220-47	SHIMSEN Syringe 10 µL Fixed needle 26/50/cone 1-pk	Thermo AI/AS 1310 AI/AS 1610 TriPlus
380-06220-48	SHIMSEN Syringe 10 µL Fixed needle 23/50/cone 1-pk	Thermo AI/AS 1310 AI/AS 1610 TriPlus
380-06220-49	SHIMSEN Gas-tight Syringe 25 µL Fixed needle 23/50/cone 1-pk	Manual gas-tight syringe
380-06220-50	SHIMSEN Gas-tight Syringe 100 µL Fixed needle 23/50/cone 1-pk	Manual gas-tight syringe
380-06220-51	SHIMSEN Gas-tight Syringe 1 mL Fixed needle 23/56/cone 1-pk	Manual gas-tight syringe
380-06220-52	SHIMSEN Gas-tight Syringe 2.5 mL Fixed needle 23/56/cone 1-pk	Manual gas-tight syringe
380-06220-68	SHIMSEN Syringe 50 µL Fixed needle 23/70/cone 1-pk	Perkin Elmer Auto SYS Clarus 500
380-06220-69	SHIMSEN Syringe 5 µL Fixed needle 23/70/cone 1-pk	Perkin Elmer Auto SYS Clarus 500
380-06220-70	SHIMSEN Syringe 0.5 µL Fixed needle 23/70/cone 1-pk	Perkin Elmer Auto SYS Clarus 500

SHIMSEN GC Consumable for non-Shimadzu GCs

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Syringe | Liner | O-ring | Septa | Ferrule | Appendix 2: Recommended products for GC

2.2 Liner



- The liner is a crucial component of the GC sampling system. The sample vaporizes within the liner, mixes thoroughly with the carrier gas, and then enters the GC column uniformly. Therefore, the liner also has a significant impact on the stability of the analysis results.
- Based on the geometric differences of the liner, it can be categorized into Single Taper, Focus, Straight and Taper focus.
- Based on the difference in sample injection methods, they can be classified into split liners, splitless liners, and split/splitness liners.
- For complex matrix samples, selecting a liner filled with glass wool can effectively reduce contamination of the GC column.
- For the analysis of active pesticides or alkaline compounds, using an inert liner tube yields better results.

P/N	Description	Compatible instrument
380-06220-12	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Agilent 5890 6890 7890 8890
380-06220-13	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 5-pk	Agilent 5890 6890 7890 8890
380-06220-14	SHIMSEN Liner Splitless Straight 4.0 mm x 6.35 x 78.5 5-pk	Agilent 5890 6890 7890 8890
380-06220-15	SHIMSEN Liner Split Focus 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Agilent 5890 6890 7890 8890
380-06220-16	SHIMSEN Liner Split Focus 4.0 mm x 6.35 x 78.5 w/Wool 25-pk	Agilent 5890 6890 7890 8890
380-06220-17	SHIMSEN Liner Split Fast Focus 2.3 mm x 6.35 x 78.5 w/Wool 5-pk	Agilent 5890 6890 7890 8890
380-06220-18	SHIMSEN Liner Split Taper Focus 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Agilent 5890 6890 7890 8890
380-06220-19	SHIMSEN Liner Split Straight 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Agilent 5890 6890 7890 8890
380-06220-40	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-41	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 5-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-42	SHIMSEN Liner Splitless Straight 4.0 mm x 6.35 x 78.5 5-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-43	SHIMSEN Liner Split Straight 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-44	SHIMSEN Liner Split Focus 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-45	SHIMSEN Liner Split Focus 4.0 mm x 6.35 x 78.5 w/Wool 25-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-64	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Perkin Elmer Clarus 590 690 GC2400
380-06220-65	SHIMSEN Liner Splitless Single Taper 4.0 mm x 6.35 x 78.5 5-pk	Perkin Elmer Clarus 590 690 GC2400
380-06220-66	SHIMSEN Liner Split Focus 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Perkin Elmer Clarus 590 690 GC2400
380-06220-67	SHIMSEN Liner Split Straight 4.0 mm x 6.35 x 78.5 w/Wool 5-pk	Perkin Elmer Clarus 590 690 GC2400

2.3 O-ring

- The O-ring primarily serves the functions of sealing and maintaining constant pressure. SHIMSEN GC Consumables provide O-rings made of fluorocarbon material.



P/N	Description	Compatible instrument
380-06220-01	SHIMSEN Inlet Liner O-ring Fluorocarbon 10-pk	Agilent 5890 6890 7890 8890
380-06220-29	SHIMSEN Inlet Liner O-ring Fluorocarbon 10-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-53	SHIMSEN Inlet Liner O-ring Fluorocarbon 10-pk	Perkin Elmer Clarus 590/690

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Syringe | Liner | O-ring | Septa | Ferrule | Appendix 2: Recommended products for GC

2.4 Septa

- The septa is primarily used to isolate the sample flow path from the outside, maintain the internal pressure of the system, prevent sample leakage, and avoid contamination of the system from external air infiltration.
- The septa is typically made of silicone rubber with good heat-resistance and airtightness. It can withstand a certain temperature without degrading and can endure multiple punctures by the syringe without leaking.
- Generally, septas are classified into general-purpose, low-bleeding, long-life and BTO type.



P/N	Description	Compatible instrument
380-06220-02	SHIMSEN Inlet Septa General Purpose Blue 11 mm 50-pk	Agilent 5880 5890 6850 6890 7890 8890
380-06220-03	SHIMSEN Inlet Septa Advanced Green 11 mm 50-pk	Agilent 5880 5890 6850 6890 7890 8890
380-06220-04	SHIMSEN Inlet Septa Long-life Non-stick 11 mm 50-pk	Agilent 5880 5890 6850 6890 7890 8890
380-06220-05	SHIMSEN Inlet Septa BTO Non-stick 11 mm 50-pk	Agilent 5880 5890 6850 6890 7890 8890
380-06220-30	SHIMSEN Inlet Septa General Purpose Blue 11 mm 50-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-31	SHIMSEN Inlet Septa Advanced Green 11 mm 50-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-32	SHIMSEN Inlet Septa Long-life Non-stick 11 mm 50-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-33	SHIMSEN Inlet Septa BTO Non-stick 11 mm 50-pk	Thermo TRACE 1300 1310 1600 1610
380-06220-54	SHIMSEN Inlet Septa General Purpose Blue 11 mm 50-pk	Perkin Elmer Clarus 590 690
380-06220-55	SHIMSEN Inlet Septa Advanced Green 11 mm 50-pk	Perkin Elmer Clarus 590 690
380-06220-56	SHIMSEN Inlet Septa Long-life Non-stick 11 mm 50-pk	Perkin Elmer Clarus 590 690
380-06220-57	SHIMSEN Inlet Septa BTO Non-stick 11 mm 50-pk	Perkin Elmer Clarus 590 690

2.5 Ferrule

- The ferrule primarily serves as a sealing component, ensuring the airtight connection between the GC column and the sample inlet.
- The SHIMSEN GC consumables are available in graphite material (100% Graphite) and VG1 material (85% Vespel+15% Graphite).
- Based on the differences in the inner diameters of capillary columns, ferrules with inner diameters of 0.4mm, 0.5mm, and 0.8mm are available: 0.4mm: 0.05 - 0.25mm | 0.5mm: 0.10 - 0.32mm | 0.8mm: 0.45 - 0.53mm.



P/N	Description	Compatible instrument
380-06220-06	SHIMSEN Ferrule Graphite 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Agilent GCs
380-06220-07	SHIMSEN Ferrule Graphite 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Agilent GCs
380-06220-08	SHIMSEN Ferrule Graphite 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Agilent GCs
380-06220-09	SHIMSEN Ferrule VG1 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Agilent GCs
380-06220-10	SHIMSEN Ferrule VG1 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Agilent GCs
380-06220-11	SHIMSEN Ferrule VG1 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Agilent GCs
380-06220-34	SHIMSEN Ferrule Graphite 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Thermo GCs
380-06220-35	SHIMSEN Ferrule Graphite 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Thermo GCs
380-06220-36	SHIMSEN Ferrule Graphite 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Thermo GCs
380-06220-37	SHIMSEN Ferrule VG1 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Thermo GCs
380-06220-38	SHIMSEN Ferrule VG1 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Thermo GCs
380-06220-39	SHIMSEN Ferrule VG1 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Thermo GCs
380-06220-58	SHIMSEN Ferrule Graphite 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Perkin Elmer GCs
380-06220-59	SHIMSEN Ferrule Graphite 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Perkin Elmer GCs
380-06220-60	SHIMSEN Ferrule Graphite 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Perkin Elmer GCs
380-06220-61	SHIMSEN Ferrule VG1 0.4mm for 0.05 - 0.25 mm capillary 10-pk	Perkin Elmer GCs
380-06220-62	SHIMSEN Ferrule VG1 0.5mm for 0.10 - 0.32 mm capillary 10-pk	Perkin Elmer GCs
380-06220-63	SHIMSEN Ferrule VG1 0.8mm for 0.45 - 0.53 mm capillary 10-pk	Perkin Elmer GCs

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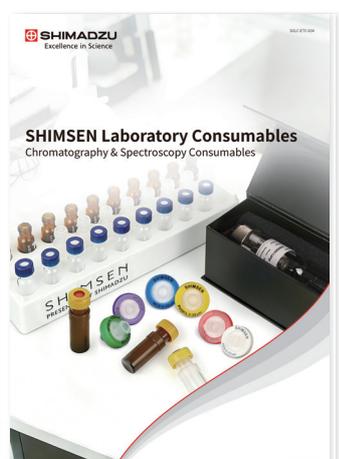
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Syringe | Liner | O-ring | Septa | Ferrule | Appendix 2: Recommended products for GC

Appendix 2: Recommended GC supporting products

SGLC can provide Shimadzu original parts, GC columns, gas filters, air compressors, hydrogen generators, TD tubes, sampling bags, vials, headspace vials, filters, and standard reagents, etc.

For more information, please click the link below.



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Shimadzu Specialty Consumables Solution

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Shimadzu (Shanghai) Global Laboratory Consumables Co.,Ltd.

global.shimadzu-sglc.com

Contact: contact@sglc.shimadzu.com.cn

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