

Spare Parts and Consumables

All the inert kit components are available separately and all parts that come into contact with the sample come precleaned, ready for immediate use.

Agilent Part #	Savillex Part #	Description
5064-8078	750-SU4MN	4mm union fitting (carrier gas line) for PFA concentric nebulizer.
G3285-80020	851-011-100550	End cap for PFA inert kit, with make-up gas port. Precleaned. 7500 & 7700 Series.
G3285-80021	851-011-100549	Spray chamber for PFA inert kit. Precleaned. 7500 & 7700 Series.
G3285-80022	851-011-100551	Drain tube for PFA inert kit. Precleaned. 7500 Series.
G4912-80014	851-011-100674	Drain tube for PFA inert kit. Precleaned. 7700 Series.
G3285-80024	851-011-100622	Connector tube (straight type) for PFA inert kit. Precleaned. 7500 & 7700 Series.
G4912-80016	851-011-100676	Connector tube (with gas port) for PFA inert kit. Precleaned. 7700 Series.
G4912A #010	851-011-100676	Connector tube (with gas port) for PFA inert kit. Precleaned. 7700 Series.
G3285-80034	851-011-100627	Injector assembly with 2.5mm ID sapphire injector. Precleaned. 7500 & 7700 Series.
G3285-80035	851-011-100628	Injector assembly with 2.5mm ID platinum injector. Precleaned. 7500 & 7700 Series.
G3285-80036	851-011-100629	Injector assembly with 1.5mm ID sapphire injector and O2 port. Precleaned. 7500 Series.
G3285-80037	851-011-100630	Injector assembly with 1.5mm ID platinum injector and O2 port. Precleaned. 7500 Series.
G4912-80010	851-011-100672	Injector assembly with 1.5mm ID sapphire injector. Precleaned. 7700 Series.
G4912-80011	851-011-100673	Injector assembly with 1.5mm ID platinum injector. Precleaned. 7700 Series.
G3285-80050	851-011-100581	Quartz torch for PFA inert kit. 7500 Series.
G4912-80012	851-011-100702	Quartz torch for PFA inert kit. 7700 Series.
G3285-80085	851-011-200112	O-ring for injector assembly (10/pk).

Where precleaned is stated, product has been precleaned by submerging in or by aspirating high purity HNO₃/HF for 4 hours.



Connector Tube Drain Tube End Cap Injectors Spray Chamber Torch 4mm Union Fitting

Other Great Products



PFA Labware

Savillex offers a full line of PFA Labware including a variety of autosampler vials and PFA bottles. Visit our website to learn more.



Custom Molding

Our unique tooling technology and fluoropolymer expertise allows us to custom make products to meet your specific needs and applications. Contact us to learn more.



Savillex Corporation
10321 West 70th St. | Eden Prairie, MN 55344-3446 | Phone: 952.935.4100 | Email: info@Savillex.com | Fax: 952.936.2292

RG002 020111

Agilent 7500 & 7700 Series ICP-MS - Cross Reference Guide



www.savillex.com

Sample introduction is a critical component of an ICP-MS instrument. The design of the sample introduction system affects all aspects of ICP-MS performance - including sensitivity, stability, washout, memory, isotope ratio precision, matrix tolerance and sample compatibility. In addition, the type and quality of materials that come into contact with the sample directly impact the level of the analytical blank. Savillex has over 30 years experience in fluoropolymer molding and unmatched expertise in the design and molding of PFA components. We design and manufacture all our ICP-OES and ICP-MS PFA sample introduction components, including our unique high performance nebulizers, which are available only from Agilent or from Savillex and our distributors. All our designs are intensively tested on ICP-MS in our own facility in Eden Prairie, MN, USA.

Savillex inert sample introduction systems are supplied by Agilent as standard equipment - with both the 7500 and 7700 Series ICP-MS instruments. They can also be purchased direct from Savillex or our distributors. This cross-reference guide gives the Savillex part number corresponding to the various Agilent part numbers used. In the case of PFA inert kits, Agilent has used multiple part numbers for the same kit. This guide lists parts for 7500 and 7700 Series parts.

PFA Nebulizers

The challenge in designing and manufacturing PFA concentric nebulizers is to achieve consistency in performance. We used our extensive expertise in PFA molding and machining to develop a superior tip design, which gives consistent sensitivity and uptake rate from nebulizer to nebulizer. These Savillex PFA nebulizers have a free aspiration uptake rate within 15% of the nominal value of 200uL/min - better than any other PFA concentric nebulizer on the market. This means that ICP-MS methods don't need to be modified each time a new nebulizer is fitted - especially where free aspiration is used. Savillex PFA nebulizers can be used with any inert kit for semiconductor use, or with HF containing samples. They can also be used with the 7500 Series quartz spray chamber, for when high sensitivity is desired, though samples containing particulates should be avoided.

Savillex PFA nebulizers come precleaned, ready for immediate use. Available with integrated probe for use with the Agilent I-AS autosampler. For difficult semiconductor applications such as high Si matrix (from VPD or from bulk Si samples, including PV Si) or H3PO4 analysis, we manufacture a 50uL/min version - please contact us, or one of our distributors to order.



Savillex PFA Concentric Nebulizers

Agilent 7500 & 7700 Part #	Savillex Part #	Description
G3285-80000	800-1-020-01-01	PFA concentric nebulizer, 200µl/min. Precleaned.
G3285-80001	800-1-020-02-01	PFA concentric nebulizer, 200µl/min with I-AS autosampler probe. Precleaned.

Where precleaned is stated, product has been precleaned by submerging in or by aspirating high purity HNO3/HF for 4 hours.

Inert PFA Sample Introduction Kits

Savillex worked very closely with Agilent to design a PFA inert kit that avoids the common problem of droplet formation in the connector tube, which causes instability and can even extinguish the plasma. The connector tube is an easy push fit design and the end cap is O-ring free to minimize contamination and features a make-up gas port. The demountable torch uses an O-ring mount, which ensures a correct fit with the torch and allows it to be easily dismantled. Injectors are available in either sapphire or Pt, with 2.5mm ID. Versions for organic sample analysis are available, featuring smaller diameter 1.5mm injectors, and a gas port for O2 addition. All parts that come into contact with the sample come precleaned, ready for immediate use. Savillex inert kits are supplied with a genuine Agilent quartz torch and are exactly as supplied as original equipment with both the 7500 and 7700 Series. These kits are the highest performing inert kits available for ICP-MS, and used by all leading semiconductor labs around the world. Choose one of the kits below and add one of the Savillex nebulizers to make a complete inert PFA sample introduction system.



Savillex PFA Inert Sample Introduction Kit

Agilent 7500 Series Part #	Savillex Part #	Agilent 7700 Series Part #	Savillex Part #	PFA Inert Kit Description
G3285A #101	850-011-100634	G4912-68000	850-011-100699	2.5mm ID sapphire injector. Precleaned.
G3285B #101	850-011-100634	G4912A #001	850-011-100699	2.5mm ID sapphire injector. Precleaned.
G3285-80014	850-011-100634			2.5mm ID sapphire injector. Precleaned.
G3285A #102	850-011-100635	G4912-68001	850-011-100701	2.5mm ID platinum injector. Precleaned.
G3285B #102	850-011-100635	G4912A #002	850-011-100701	2.5mm ID platinum injector. Precleaned.
G3285-80015	850-011-100635			2.5mm ID platinum injector. Precleaned.
G3285A #103	850-011-100636	G4912-68002	850-011-100698	1.5mm ID sapphire injector and O2 port. Precleaned.
G3285B #103	850-011-100636	G4912A #003	850-011-100698	1.5mm ID sapphire injector and O2 port. Precleaned.
G3285-80016	850-011-100636			1.5mm ID sapphire injector and O2 port. Precleaned.
G3285A #104	850-011-100637	G4912-68003	850-011-100700	1.5mm ID platinum injector and O2 port. Precleaned.
G3285B #104	850-011-100637	G4912A #004	850-011-100700	1.5mm ID platinum injector and O2 port. Precleaned.
G3285-80017	850-011-100637			1.5mm ID platinum injector and O2 port. Precleaned.

Where precleaned is stated, product has been precleaned by submerging in or by aspirating high purity HNO3/HF for 4 hours. All kits include spray chamber, drain tube, connector tube, injector assembly and quartz torch.