

ICP-MS Supplies for Agilent HP 4500

- ◆ Offers a Complete Product Line
- ◆ Series of Torches, Nebulizers & Spray Chambers
- ◆ Ensure Accuracy & Peace of Mind

◆ TORCHES & ACCESSORIES*



Catalogue No.
020-050-139

Description
Torch with 2.5 mm Injector
Torch, HF Demountable
HP Teflon Injector Holder

Cross Ref.
G1820-65028
G1820-65035
G1820-65015

Catalogue No.
020-050-139
020-050-135
020-050-136

◆ SPRAY CHAMBERS & ACCESSORIES*



Catalogue No.
020-056-101

Description
Quartz spray chamber for Babington Nebulizer
Quartz spray chamber for X-flow Nebulizer
Quartz ball joint connector

Cross Ref.
G1820-65337
G1820-65339
G1820-80237
G1820-65007

Catalogue No.
020-056-101
020-056-102
020-056-201
020-048-201

◆ NEBULIZERS*



Catalogue No.
020-060-002

Description
Babington Nebulizer
Pyrex Concentric Nebulizer
Quartz Concentric Nebulizer

Cross Ref.
G1820-60453
G1820-65030
G1820-65138

Catalogue No.
020-060-605
020-060-002
020-060-011

*For a complete list, please contact **SCP SCIENCE**



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2 x 25 ml box, 1000µg/ml standards

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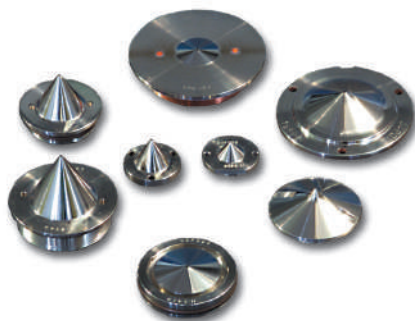
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SCP SCIENCE Provides Skimmer and Sampler Cones for Agilent 4500



PlasmaFORM ICP-MS cones are manufactured by the electroforming process rather than by traditional CNC lathe methods. Providing better performance with :

- Sharper hole edges and superior surface finishes:
 - Minimize gas disturbances
- Enhanced thermal characteristics
- Extended lifetimes

◆ ICP-MS CONES*

	DESCRIPTION	CROSS REF.	CATALOGUE No
 Catalog # 020-107-051 & 020-107-052	Nickel Sampling	G1820-65238	020-107-051
	Nickel Skimmer	G1820-65265	020-107-052
	Nickel Sampling, for T-mode	G1820-65480	020-107-055
	Nickel Skimmer, for T-mode	G1820-65481	020-107-056
	Platinum Sampling, copper	G1820-65239	020-107-151
	base	G1820-65237	020-107-152

◆ PERISTALTIC PUMP TUBING*

TUBING TYPE	COLOR CODE	STOPS	ID mm	QUANTITY	CATALOGUE No
PVC	Orange/Blue	2	0.25	12	020-030-003
PVC	White/White	2	1.02	12	020-030-009
PVC	Orange/Blue	3	0.25	12	020-033-003
PVC	Orange/Orange	3	0.89	12	020-033-008
Solvent Flex	Orange/Blue	2	0.25	12	020-030-103
Solvent Flex	Orange/Orange	2	0.89	12	020-030-108
Solvent Flex	White/White	2	1.02	12	020-030-109
Solvent Flex	Orange/Blue	3	0.25	12	020-033-103
Solvent Flex	Orange/Orange	3	0.89	12	020-033-108
Solvent Flex	White/White	3	1.02	12	020-033-109
Silicon	Orange/Orange	2	0.89	6	020-030-208
Silicon	White/White	2	1.02	6	020-030-209
Silicon	Orange/Orange	3	0.89	6	020-033-208
Silicon	White/White	3	1.02	6	020-033-209
Viton	Orange/Orange	2	0.89	12	020-030-308
Viton	White/White	2	1.02	12	020-030-309
Viton	Orange/Orange	3	0.89	12	020-033-308
Viton	White/White	3	1.02	12	020-033-309

*For a complete list, please contact **SCP SCIENCE**

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Agilent ICP-MS Supplies

HP 7500

- ◆ Provide an Exact Match for Agilent 7500
- ◆ Offers a Complete Product Line
- ◆ Series of Torches, Nebulizers & Spray Chambers
- ◆ Ensure Accuracy & Peace of Mind

◆ TORCHES & ACCESSORIES*



Catalogue No.
020-050-161

Description
Quartz Torch with 2.5 mm Injector

Cross Ref.
G1833-65423

Catalogue No.
020-050-161

◆ SPRAY CHAMBERS & ACCESSORIES*



Catalogue No.
020-050-132

Description
Quartz Scott Chamber, Inner/Outer Tube
Flush, Drain & Exit 180°
Clamps

Cross Ref.

G1833-65430

Catalogue No.
020-050-132
020-048-201

◆ NEBULIZERS*



Catalogue No.
020-060-002

Description
Babington Nebulizer
Pyrex Concentric Nebulizer
Quartz Concentric Nebulizer

Cross Ref.
G1820-60453
G1820-65030
G1820-65138

Catalogue No.
020-060-605
020-060-002
020-060-011

◆ CALIBRATION STANDARDS SOLUTIONS*

Description
7500 Series PA Tuning Solutions
Pyrex Concentric Nebulizer
Quartz Concentric Nebulizer

Cross Ref.

Catalogue No.
140-130-37x
140-130-38x
140-130-39x

Catalogue No.
020-060-002



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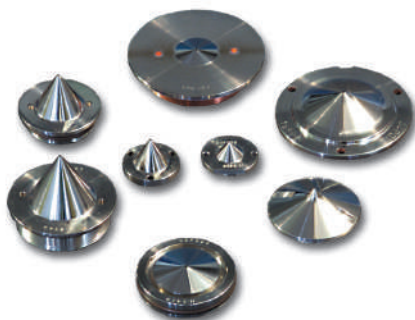
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SCP SCIENCE Provides the Exact Matched Cones for Agilent 7500



PlasmaFORM ICP-MS cones are manufactured by the electroforming process rather than by traditional CNC lathe methods. Providing better performance with :

- Sharper hole edges and superior surface finishes:
- Minimize gas disturbances
- Enhanced thermal characteristics
- Extended lifetimes

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	base	G1820-65237	020-107-152

◆ PERISTALTIC PUMP TUBING*

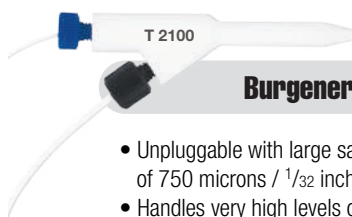
TUBING TYPE	COLOR CODE	STOPS	ID mm	QUANTITY	CATALOGUE No
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PVC	White/White	2	1.02	12	020-030-009
PVC	Orange/Blue	3	0.25	12	020-033-003
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Viton	White/White	3	1.02	12	020-033-309

*For a complete list, please contact **SCP SCIENCE**

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Enhanced Parallel Path Nebulizers

- ◆ Provides excellent sensitivity with high transport rates
- ◆ Eliminates plugs due to salt or undissolved particles
- ◆ Delivers long term stability



Burgener T2100

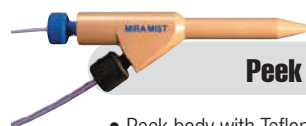


- Unpluggable with large sample capillary of 750 microns / 1/32 inch
- Handles very high levels of particles in samples
- Same OD as glass concentrics, fits most chambers



Teflon® Mira Mist®

- Non plugging, handles high or low level particulates in sample
- Used for any liquid (perfect for high acid concentration, HF, Bromic, H₂SO₄)
- Same OD as glass concentrics, fits most chambers



Peek Mira Mist®

- Peek body with Teflon® inner capillaries: More affordable than the Teflon Mira Mist®
- Non plugging, handles high or low level particulates in sample
- Used for 20% or lower acid concentrations, not suitable for over 5% H₂SO₄, HF, and for some particular organic solvents
- Same OD as glass concentrics, fits most chambers



Ari Mist®

- Peek body with Teflon® inner capillaries
- Handles ultra low sample flow
- Used only for samples that are particulate free
- Same OD as glass concentrics, fits most chambers

Order Online At: www.scpscience.com

Email: sales@scpscience.com

Ordering Information

Part Number	Name	Pc Range Argon Pressure (psi)	Ra Range Sample Uptake (ml/min)	Body
020-060-318	T 2100	30 - 45	0.5 - 3.0	Teflon®
020-060-301	T 2002	35 - 45	0.5 - 3.0	Teflon®
020-060-306	Teflon® Mira Mist®	35 - 45	0.2 - 2.5	Teflon®
020-060-307	Ari Mist® HP	35 - 80	0.005 - 1.0	PEEK
020-060-308	PEEK Mira Mist®	35 - 45	0.2 - 2.5	PEEK
020-060-310	Graphite Mira Mist® HS	35 - 45	0.2 - 2.5	Teflon®
020-060-312	Mira Mist® CE	80 - 90	0.005 - 2.5	PEEK
020-060-314	Ari Mist®	40 - 50	0.05 - 1.0	PEEK

FREE



With every purchase of glassware, receive a **FREE PlasmaCAL** ICP-AES/MS 2 x 25 ml box, 1000µg/ml standards

For a complete listing of all ICP nebulizers or for more information, contact your sales representative or local distributor today!

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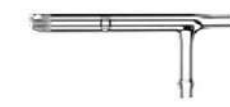
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NEBULIZERS

In addition to traditional glass concentric nebulizers, other nebulizer designs and material compositions are available to meet specific analytical requirements. The following table offers valuable information to choose the optimal nebulizer for your application.

Nebulizer Type	Material / Chemical Resistance	Application	Sensitivity
Babbington V-Groove 	PEEK. Good chemical resistance for most acids and organic solvents.	For use with Scott style and cyclonic spray chambers. Great High solids capability.	Moderate sensitivity. Original V-Groove design.
Mini Cross-Flow 	Ultem. Good with all acids and organic solvents.	For use with cyclonic spray chambers with large opening. Great high-solids capability.	Better detection limits compared to Cross-Flow, glass concentric, and parallel path nebulizers.
Cross-Flow 	Ultem. Good chemical resistance for most acids and organic solvents.	For use with Scott style spray chambers. Great high-solids capability.	Moderate sensitivity due to wide range of droplet size.
Glass Concentric, Meinhard® 	Quartz or borosilicate. Good for most acids and organic solvents. Not recommended for Hydrofluoric (HF) acid.	For use with Scott style and cyclonic spray chambers. Not recommended for high solids applications.	Excellent mist and sensitivity.
Modified Lichte 	Quartz or borosilicate. Good for most acids and organic solvents. Not recommended for Hydrofluoric (HF) acid.	For use with Modified Lichte spray chamber. Unique patented design. Great high solids capability.	Great sensitivity. Patented design with impingement bead to further atomize aerosol resulting in uniform droplet size.
Noordermeer V-Groove 	Quartz or borosilicate. Good for most acids and organic solvents. Not recommended for HF.	For use with Scott style and cyclonic spray chambers. Great high solids capability. Same principal as Babbington nebulizer.	Moderate to high sensitivity for a high-solids nebulizer. Better efficiency than a Babbington V-Groove nebulizer.
Mira Mist®, PEEK 	PEEK body with Teflon® inner capillaries. Good chemical resistance for most acids and organic solvents. Not recommended for Hydrofluoric (HF) acid.	For use with Scott style and cyclonic spray chambers. Recommended for high-solids applications.	Excellent sensitivities and stability. Patented enhanced parallel path method to run high Total Dissolved Solids (TDS).
Mira Mist®, Teflon® 	All Teflon®. Good with all acids and organic solvents.	For use with Scott style and cyclonic spray chambers. Recommended for high-solids applications.	Excellent sensitivities and stability. Patented enhanced parallel path method to run high Total Dissolved Solids (TDS).

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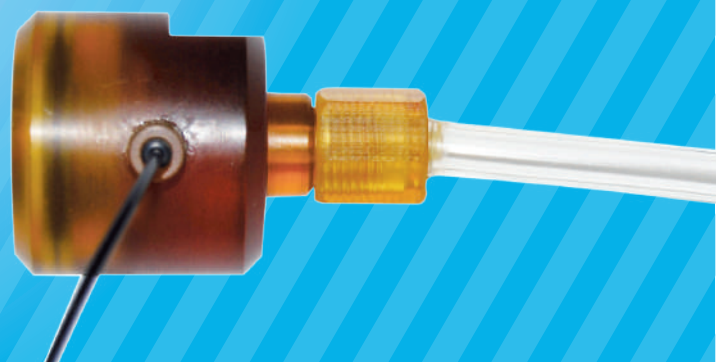
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SCP SCIENCE

PROVIDING INNOVATIVE SOLUTIONS TO ANALYTICAL CHEMISTS

MINI X-FLOW Nebulizer

For ICP & ICP-MS



www.scpscience.com

MANUFACTURED FROM ACID RESISTANT ULTEM PLASTIC

Compatible with a variety of glass and HF resistant cyclonic spray chambers for use with PerkinElmer®, TJA, Varian and Spectro ICP & ICP-MS spectrometers.



**IDEAL FOR
HIGH SOLIDS
APPLICATIONS:
Up to 30% TDS**

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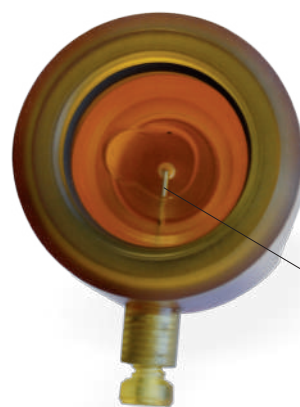
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Mini X-Flow Nebulizer

The Mini X-Flow nebulizer is part of a new family of **SCP SCIENCE** ICP nebulizers, spray chambers and torches offering versatility unmatched in today's analytical market. With the Mini X-Flow nebulizer, one can eliminate the need to change ICP sample introduction components for different applications or different sample types.

Whether your samples are clean waters, suspensions, sludges or samples with high dissolved solids, the Mini X-Flow nebulizer can handle them all - and with the best performance. Manufactured from acid resistant Ultem plastic, and a platinum iridium sample inlet coupled to a sapphire crystal, the Mini X-Flow nebulizer may run samples in any acid matrix (including hydrofluoric acid). The Mini X-Flow nebulizer is designed to be used with specific Teflon® insert-ready **SCP SCIENCE** cyclonic spray chambers.

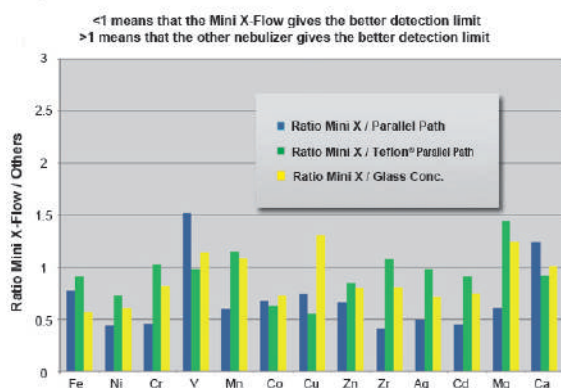


Platinum Iridium Sample Inlet



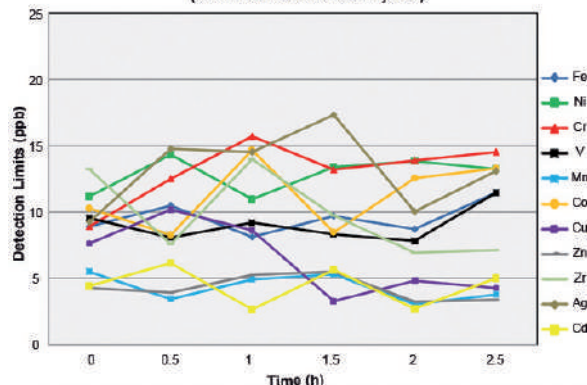
Baffled glass spray chamber
020-051-113

Comparison of the Detection Limits for the Mini X-Flow and Other Nebulizers



Graph 1 - Detection limit comparison

Graph 2: Detection limit short-term stability with 7.5% de NaCl (2.0mm fixed alumina torch injector)



Graph 2 - Short term stability

Operational Specifications

Sample Flow Rate: 0.8 - 3.0 ml / min

Argon Gas Flow Rate: 1.0L / min

Operating Pressure: 25-40 psi

Performance

A comparison of the Mini X-Flow nebulizer detection limits with those of other popular nebulizers. Included in the study were glass concentric and Teflon® parallel path nebulizers. Results show equal to, or better detection limits using the Mini X-Flow nebulizer (see graph 1).

For high solid samples, the Mini X-Flow nebulizer provides excellent performance for solutions containing as high as 30% TDS (Total dissolved solids).

Tests* prove the Mini X-Flow's superior performance over a wide range of elements in varying solids concentrations (see graph 2).

*For a copy, please contact **SCP SCIENCE**.

Utem Spray Chamber

The Utem spray chamber can also be supplied with a Teflon® insert for use with 6 mm diameter concentric or parallel path nebulizers (Figure 1). The Mini X-Flow fits directly on the spray chamber inlet port negating the need for the Teflon® adapter (Figure 2). This inert spray chamber is unique because it's made of 3 components (a top cap, middle body and bottom base) that can be assembled and disassembled easily. This design makes cleaning the spray chamber simple and trouble-free.

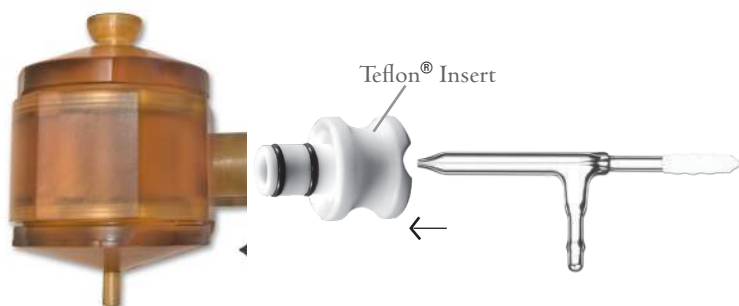


Figure 1
Utem spray chamber with Teflon® insert

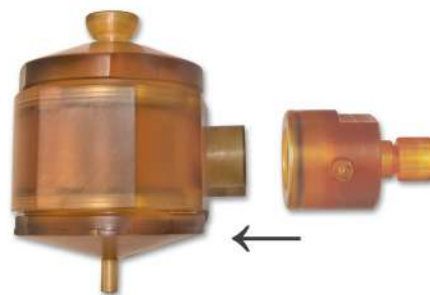


Figure 2
Utem spray chamber with Mini X-Flow nebulizer

Compatibility

With the **SCP SCIENCE** Utem spray chamber, customers enjoy the ultimate in flexibility. By unscrewing the top and bottom, the body can be flipped to convert the spray chamber from left hand nebulizer entry to right hand entry allowing the spray chamber to be used in different manufacturers' instruments in the lab. The top can be converted from baffled to unbaffled by simply switching the top portion of the spray chamber. When the Mini X-Flow nebulizer is used with the **SCP SCIENCE** Utem spray chamber (sold separately), the pair provides the best choice for HF resistant operation.

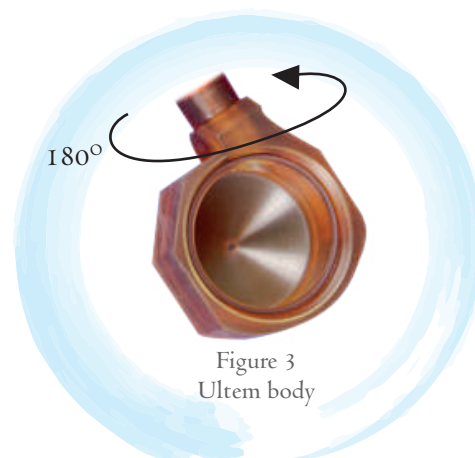
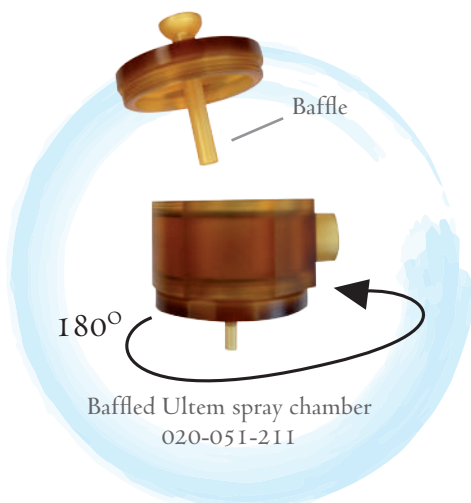


Figure 3
Utem body



Baffled Utem spray chamber
020-051-211

Advantages

Cyclonic spray chambers provide superior wash out times compared to traditional Scott spray chambers. Choose a baffled spray chamber for samples containing high solids or unbaffled when the nebulizer is to be used with cleaner solutions.



Unbaffled Utem spray chamber
020-051-111

Ordering Information

The Mini X-Flow nebulizer is supplied with both sample inlet tubing and gas inlet tubing. Gas connectors, also manufactured from acid resistant Ultem, are fitted at the instrument end for a click-in-place installation. To place an order or for additional product information, please contact your local sales representative or distributor.

Ultem Nebulizer & Spray Chambers

ITEM	QUANTITY	CATALOGUE NUMBER
Mini X-Flow nebulizer, Ultem	1	020-060-611
Spray chamber, with baffle, Ultem, 4mm drain, with Teflon® insert	1	020-051-211
Spray chamber, without baffle, Ultem, with Teflon® insert	1	020-051-111
Clamp, stainless steel, #12	1	020-048-201
Top with baffle for Ultem spray chamber	1	020-051-214
Top without baffle for Ultem spray chamber	1	020-051-215

Glass Spray Chambers

Each spray chamber is fully compatible with the Mini X-Flow nebulizer.

DESCRIPTION	MODEL	OEM #	CATALOGUE NUMBER
Spray chamber, cyclonic, baffled 12mm -axial torch connection, 4mm drain	PerkinElmer 2000/4000/5000/7000 DV, 3000 DV	N0776053	020-051-113
Spray chamber, cyclonic, Quartz baffled, 12/5-axial torch connection, 2mm drain	PerkinElmer SCIEX ELAN 5000, 6000 Series, 9000 Series, DRC II	---	020-051-132
Spray chamber, cyclonic, 11.3 mm-axial torch connection, 4mm drain	PerkinElmer 2000/4000/5000/7000 DV, 3000 DV	---	020-051-141
Spray chamber, cyclonic, baffled 12/5-radial torch connection, 4mm drain	PerkinElmer Optima 4300V	N0771501	020-051-126
Spray chamber, cyclonic, water cooled, baffled 9.5mm-axial torch connection , 10mm drain	Thermo (TJA) Iris, Tracescan, Trace, Advantage, Intrepid Spray Chamber	---	020-049-201
Spray chamber, cyclonic, baffled 9.5mm x 80mm-radial torch connection, 4mm drain	Thermo (TJA) 61E Polyscan, Atomscan 16 & 25, Advantage Radial, IRIS & POEMS	---	020-051-101
Spray chamber, cyclonic, 9.5mm x 40mm-axial torch connection, 4mm drain	Thermo (TJA) Trace Advantage Axial, Trace Scan, IRIS AP & POEMS	---	020-051-295
Spray chamber, cyclonic, 9.5mm x 40mm x 100mm long-axial torch connection, 4mm drain	Thermo (TJA) Trace Advantage Axial, Trace Scan, IRIS AP & POEMS	14451500	020-051-296
Spray chamber, cyclonic, 12/5-radial torch connection, 4mm drain angled	Thermo (TJA) Iris, Tracescan, Trace, Advantage, Intrepid Spray Chamber	---	020-051-429
Spray chamber, cyclonic, baffled 12/5-radial short torch connection, 4mm drain	Varian, 700-ES Series Radial, Vista Radial, Liberty 100/120/150/200/220 Spray Chambers	---	020-054-074
Spray chamber, cyclonic, 8mm -radial torch connection, 4mm drain	Varian, 700-ES Series Radial, Vista Radial, Liberty 100/120/150/200/220 Spray Chambers	---	020-054-162

MK-MINI_X_FLOW_BROC-8.0-E

NEW Long Lasting
Alumina Injector Torches

For SPECTRO® Users



Catalog No.
020-070-015

For Varian® Users



Catalog No.
020-070-010

For PerkinElmer® Users



Catalog No.
020-070-005

NOTE: Contact your local sales representative for more information on these patent pending torches. Several models are available for other ICP systems.

MATCH THE CORRECT **SCP SCIENCE**

CYCLONIC SPRAY CHAMBERS

TO THE

MINI X-FLOW NEBULIZER

PART NO. 020-060-611

IMAGE	MAKE	MODEL	SCP SCIENCE Catalogue # *	DESCRIPTION	OEM # **
	PerkinElmer®	2000 4000 5000 7000 DV, OPTIMA 3000 DV3000 SCX3X00 XL	020-071-021	Cyclonic Spray Chamber with baffle, 12 mm I.D.	NO776053
			020-071-022	Cyclonic Spray Chamber without baffle, 12 mm I.D.	NO776052
	PerkinElmer®	2000 4000 5000 7000 DV, OPTIMA 3000 DV3000 SCX3X00 XL	020-051-111	Ultem Cyclonic Spray Chamber without baffle	
	Thermo – TJA®	2000 4000 5000 7000 DV, PE 3000 3X00RL 3X00 SCR, OPTIMA 3000 DV3000 SCX3X00 XL	020-051-211	Ultem Cyclonic Spray Chamber with baffle with appropriate adapter	
	Agilent/Varian®	iCAP6X00 Duo, iCAP6X00 Radial			
	PerkinElmer®	PE 3000 3X00RL 3X00 SCR,	020-071-031	Cyclonic Spray Chamber, with baffle.	NO771501
	Agilent/Varian®	Axial for High TDS & Wear Metal Mini X-Flow, Varian Axial for High TDS & Wear Metal Sample with Mini X-Flow & Alumina Injector Fixed Torch, Varian Radial for High TDS & Wear Metal with Mini X-Flow, Varian Radial for High TDS & Wear Metal Sample with Mini X-Flow & Alumina Injector Fixed Torch	020-071-061	Cyclonic Spray Chamber, 50 ml, 4 mm drain, with baffle, 12/5	
	Spectro®	With Mini X-Flow Nebulizer, Cyclonic Spray Chamber & Alumina Injector Fixed Torch			

* Cyclonic spray chambers with 20 mm opening for use with Mini X-Flow Nebulizers.

** OEM cyclonic spray chambers that do not have a 20 mm sample inlet will not be compatible with SCP SCIENCE Mini X-Flow Nebulizer.



MATCH THE CORRECT **SCP SCIENCE**

CYCLONIC SPRAY CHAMBERS

TO THE MINI X-FLOW NEBULIZER

PART NO. 020-060-611

IMAGE	MAKE	MODEL	SCP SCIENCE Catalogue # *	DESCRIPTION	OEM # **
	Thermo – TJA®	iCAP6X00 Duo, iCAP6X00 Radial	020-071-001	Cyclonic Spray Chamber, with baffle. PTFE insert.	842312051311
			020-071-002	Cyclonic Spray Chamber, without baffle. PTFE insert.	842312051411
	Thermo – TJA®	Radial	020-071-011	Cyclonic Spray Chamber, radial, 80 mm neck	
	PerkinElmer®	Elan 6x00 / 9000	020-071-051	Cyclonic Spray Chamber with baffle, Elan	N8120150
	Leeman®		020-071-041	Cyclonic Spray Chamber, Axial with baffle	
	Agilent/Varian®		020-054-165	Cyclonic Spray Chamber, without 12/5 joint, axial, baffled	

* Cyclonic spray chambers with 20 mm opening for use with Mini X-Flow Nebulizers.

** OEM cyclonic spray chambers that do not have a 20 mm sample inlet will not be compatible with SCP SCIENCE Mini X-Flow Nebulizer.

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**TORCHES & ACCESSORIES**

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Torch, DV (no injector)	N077-0338	020-051-002
Torch body, radial	N077-1500	020-051-005
NEW Fixed Torch, DV PE 2000/4000, with 0.8mm injector, 1 slot	---	020-051-007
NEW Fixed Torch, DV PE 2000/4000, with 1.2mm injector, 1 slot	---	020-051-008
NEW Fixed Torch, DV PE 2000/4000, with 1.6mm injector, 1 slot	---	020-051-009
NEW Fixed Torch, DV PE 2000/4000, with 2.0mm injector, 1 slot	---	020-051-004
Torch body, short version	N077-0344	020-051-098
Quartz injector, 2.0mm	N077-5014	020-051-302
Quartz injector, 3.0mm	N077-5224	020-051-304
Quartz injector, 1.6mm	N077-5223	020-051-306
Quartz injector, 1.2mm	N077-5226	020-051-308
Quartz injector, 0.8mm	N077-5225	020-051-310
Alumina injector, 0.8mm	N077-5227	020-051-317
Alumina injector, 1.2mm	N077-5228	020-051-318
Alumina injector, 1.2mm, 4300	N077-1531	020-050-258
Alumina injector, 2.0mm	N077-5177	020-051-319
Torch bonnet (pk/2)	N077-5289	020-051-350
Radial purge window, 4000	N077-0322	020-051-256
Axial purge window, 4000	N077-1116	030-050-158
Purge tube window, radial short	N069-0672	020-050-254
Copper strips (12/pk)	N077-5297	020-051-001
O-Ring Kit for 4300V/5300V Torch	N077-0916	020-050-516
Torch Optima 2000/4000, Demountable, No Slot	N077-0343	020-051-006
Axial Purge Extension Windows for Optima 2X00/3X00 XL/3000 SCX	---	020-050-221

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SPRAY CHAMBERS & ACCESSORIES

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Cyclonic, no baffle	N077-6052	020-051-114
Cyclonic, baffle	N077-6053	020-051-113
Mini Cyclonic	---	020-051-107
Cyclonic, 4mm baffle	N077-6090	020-051-138
Cyclonic 50ml, 12/5 socket top, 4mm drain, teflon insert	N077-1501	020-051-126
Torch O-Ring Kits for Optima 2X00/4X00/5X00	---	020-050-513

China

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Fax: +86 (10) 58032302

NEBULIZERS

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Noordermeer	---	020-060-602
General (A3), concentric, 25-40 psi, 2.5-3.5ml/min	0047-2020	020-060-002
Hi-Solids (C1), concentric, 25-40 psi, 0.7-1.4ml/min	0047-2022	020-060-003
Hi-Solids (C0.5), concentric, 41-60 psi, 0.3.6ml/min	N810-2012	020-060-004
Hi-Solids (C3), concentric, 25-40 psi, 2.5-3.5ml/min	N810-2011	020-060-007
Low flow (K3), concentric, 25-40 psi, 2.3-4.0ml/min	N068-1574	020-060-009
Teflon® MiraMist, concentric, 35-45 psi, 0.2-2.5ml/min	---	020-060-306
Peek MiraMist, concentric, 45 psi, 0.2-2.5ml/min	N077-5330	020-060-308

PERISTALTIC PUMP TUBING

DESCRIPTION	CROSS REF.	CATALOG NUMBER
NEW - Orange/Red Flared Pump Tubing, 0.0075, PVC, 2-stops, 12/pack	N077-3111	020-130-002
NEW - Orange/Blue Flared Pump Tubing, 0.001, PVC, 2-stops, 12/pack	N077-3112	020-130-003
NEW - Green/Yellow Flared Pump Tubing, 0.0173, PVC, 2-stops, 12/pack	N077-3113	020-130-015
Orange/Red, 0.0075", PVC, 2-stops, 12/pack	N069-5476	020-030-002
Black/Black, 0.030", PVC, 2-stops, 12/pack	0990-8587	020-030-007
Red/Red, 0.045", PVC, 2-stops, 12/pack	N068-0375	020-030-010
Black/White, 0.125", PVC, 2-stops, 12/pack	N812-2012	020-030-021
Black/Black, 0.030", PVC, 3-stops, 12/pack	B050-6058	020-033-007
White/White, 0.040", PVC, 3-stops, 12/pack	B050-6742	020-033-009
Red/Red, 0.045", PVC, 3-stops, 12/pack	B019-3160	020-033-010
Purple/Purple, 0.080", PVC, 3-stops, 12/pack	B019-9034	020-033-015
Yellow/Blue/Yellow, 0.060", PVC, 3-stops, 12/pack	B019-3161	020-033-019
Black/White/Black, 0.125", PVC, 3-stops, 12/pack	B050-8310	020-033-021
Black/Black, 0.030", Solvent Flex, 2-stops, 12/pack	0047-3550	020-030-107
Red/Red, 0.045", Solvent Flex, 2-stops, 12/pack	N068-0376	020-030-110
White/White, 0.040", Solvent Flex, 3-stops, 12/pack	B050-7692	020-033-109
Black/Black, 0.030", Silicone, 2-stops, 6/pack	0047-3552	020-030-207
Red/Red, 0.045", Silicone, 2-stops, 6/pack	N069-1595	020-030-210
Black/Black, 0.030", Viton, 2-stops, 12/pack	0990-8587	020-030-307
Perkin Elmer® Mixing Kit, PVC, 3-stops, Orange/Orange:Orange/Green, 4/pack	---	020-049-602
Perkin Elmer® Sciex Mixing Kit, PVC, 2-stops, Black/Black:Orange/Red, 4/pack	---	020-049-603

PlasmaPURE Trace Metal Grade Acids

DESCRIPTION	ASSAY	CATALOG NUMBER			
		250 ml	2.5 L	2.5 L*	4 L
Hydrochloric Acid	34-37% HCl	250-037-151	250-037-155	250-037-157	250-037-159
Hydrofluoric Acid	47-51% HF	250-037-161**	---	---	250-037-169**
Nitric Acid	67-70% HNO ₃	250-037-171	250-037-175	250-037-177	---
Sulphuric Acid	93-98% H ₂ SO ₄	250-037-181	250-037-185	250-037-187	---
Ammonia Solution	20-22% NH ₃	250-037-191	---	---	250-037-199

* safety coated bottle ** Packaged in LDPE bottles

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- Available in-stock and ready-to-ship



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Torches & Accessories

Description	Cross Ref.	Catalog #
Torch Body	N069-0568	020-050-181
Quartz Sample Injector 1.2 mm	N068-1631	020-050-182
Quartz Sample Injector 1.6 mm	N069-5448	020-050-238
Quartz Sample Injector 2.0 mm	N069-5441	020-050-234
Torch Bonnet, Flat Edge (pk/2) (before Sept. 1994)	N069-5295	020-050-185
Torch Bonnet (pk/2) (after Sept. 1994)	N069-5456	020-050-204
Purge Extension Window	N058-1497	020-050-213

Spray Chambers & Accessories

Description	Cross Ref.	Catalog #
Scott, Type II	---	020-051-115
Cyclonic, Optima	---	020-051-116
Cyclonic, for Modified Lichte Nebulizer	---	020-060-126

*Contact **SCP SCIENCE** for more details.

Providing Innovative Solutions

to Analytical Chemists

Nebulizers

Description	Cross Ref.	Catalog #
Noordermeer	---	020-060-602
General (A3), concentric, 25-40 psi, 2.5-3.5ml/min	0047-2020	020-060-002
Hi-Solids (C1), concentric, 25-40 psi, 0.7-1.4ml/min	0047-2022	020-060-003
Hi-Solids (CO.5), concentric, 41-60 psi, 0.30.6ml/min	N810-2012	020-060-004
Hi-Solids (C3), concentric, 25-40 psi, 2.5-3.5ml/min	N810-2011	020-060-007
Low Flow (K3), concentric, 25-40 psi, 2.3-4.0ml/min	N068-1574	020-060-009
Teflon Mira Mist, concentric, 35-45 psi, 0.2-2.5ml/min	---	020-060-306
Peek Mira Mist, concentric, 45 psi, 0.2-2.5ml/min	N077-5330	020-060-308

Peristaltic Pump Tubing*

Description	Cross Ref.	Catalog #
Orange/Red, 0.0075", PVC, 2-stops, 12/pak	N069-5476	020-030-002
Black/Black, 0.030", PVC, 2-stops, 12/pak	0990-8587	020-030-007
Red/Red, 0.045", PVC, 2-stops, 12/pak	N068-0375	020-030-010
Black/White, 0.125", PVC, 2-stops, 12/pak	N812-2012	020-030-021
Black/Black, 0.030", PVC, 3-stops, 12/pak	B050-6058	020-033-007
White/White, 0.040", PVC, 3-stops, 12/pak	B050-6742	020-033-009
Red/Red, 0.045", PVC, 3-stops, 12/pak	B019-3160	020-033-010
Purple/Purple, 0.080", PVC, 3-stops, 12/pak	B019-9034	020-033-015
Yellow/Blue/Yellow, 0.060", PVC, 3-stops, 12/pak	B019-3161	020-033-019
Black/White/Black, 0.125", PVC, 3-stops, 12/pak	B050-8310	020-033-021
Black/Black, 0.030", Solvent Flex, 2-stops, 12/pak	0047-3550	020-030-107
Red/Red, 0.045", Solvent Flex, 2-stops, 12/pak	N068-0376	020-030-110
White/White, 0.040", Solvent Flex, 3-stops, 12/pak	B050-7692	020-033-109
Black/Black, 0.030", Silicon, 2-stops, 6/pak	0047-3552	020-030-207
Red/Red, 0.045", Silicon, 2-stops, 6/pak	N069-1595	020-030-210
Black/Black, 0.030", Viton, 2-stops, 12/pak	0990-8587	020-030-307
Perkin Elmer Mixing Kit, PVC, 3-stops, Orange/Orange:Orange/Green, 4/pak	---	020-049-602
Perkin Elmer Sciex Mixing Kit, PVC, 2-stops, Black/Black:Orange/Red, 4/pak	---	020-049-603

* For a complete list, please contact **SCP SCIENCE**

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TORCHES & ACCESSORIES

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Torch, One Piece, Low Flow	2010078300	020-050-141
Quartz Injector, 1.8 mm	2010073000	020-050-144
Alumina Injector, 1.8 mm	2410067500	020-050-145
Torch, Demountable, Body Only	2010079300	020-050-198
PTFE Injector Holder	9910057300	020-050-199
Demountable Torch, Complete	9910071700	020-052-004
Quartz Injector, 0.8 mm	2010077500	020-052-301
Alumina Injector, 2.5 mm	---	020-052-346

TORCH



CAT. NO 020-050-141

SPRAY CHAMBER



CAT. NO 020-054-160

SPRAY CHAMBERS

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Borosilicate Cyclonic Spray Chamber, 50 ml, 8mm Top, 4 mm Drain, w/Baffle	7910043700	020-054-314
Borosilicate Cyclonic Spray Chamber, 50 ml, 8 mm Top, 4 mm Drain, w/o Baffle	2010081700	020-054-160

ICP-MS CONES

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Nickel Sampler F-Series Type	99-100940-00	020-107-070
Nickel Skimmer F-Series Type	99-100941-00	020-107-072

ICP-MS CONE



CAT. NO 020-107-070/
020-107-072

NEBULIZERS

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Concentric (C-type, 1 ml/min Ar @ 35 psi)	20-100816-00	020-060-003
Concentric (C-type, 2 ml/min Ar @ 30 psi), High Solids	20-100765-00	020-060-006
Concentric (K-type, 2 ml/min Ar @ 30 psi), Low Flow	20-100695-00	020-060-008
Concentric (K-type, 2 ml/min Ar @ 30 psi), Low Flow	20-100816-00	020-060-009
High Solids V-Groove Nebulizer, 0.7 lpm Ar @ 35 psi	99-100574-00	020-060-607
Babbington Glass V-Groove, 1.0 L/min @ 35 psi	---	020-060-605
Burgener MiraMist, 0.2 - 2.5 ml/min @ 45 psi (Teflon)	---	020-060-306
Burgener PEEK MiraMist, 0.2 - 2.5 ml/min @ 45 psi (PEEK)	---	020-060-308

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PERISTALTIC PUMP TUBING*

DESCRIPTION	CROSS REF.	CATALOG NUMBER
Black/Black, 0.030", PVC, 2-stops, 12/pak	37-100272-00	020-030-007
White/White, 0.040", PVC, 2-stops, 12/pak	37-100344-00	020-030-009
Grey/Grey, 0.050", PVC, 2-stops, 12/pak	37-100345-00	020-030-011
Blue/Blue, 0.065", PVC, 2-stops, 12/pak	37-100346-00	020-030-013
Purple/Black, 0.090", PVC, 2-stops, 12/pak	37-100273-00	020-030-016
Black/Black, 0.030", Solvent Flex, 2-stops, 12/pak	37-100348-00	020-030-107
White/White, 0.040", Solvent Flex, 2-stops, 12/pak	37-100350-00	020-030-109
Grey/Grey, 0.050", Solvent Flex, 2-stops, 12/pak	37-100352-00	020-030-111
Black/Black, 0.030", Silicon, 2-stops, 6/pak	37-100441-00	020-030-207
White/White, 0.040", Silicon, 2-stops, 6/pak	37-100442-00	020-030-209
Grey/Grey, 0.050", Silicon, 2-stops, 6/pak	37-100443-00	020-030-211
Blue/Blue, 0.065", Silicon, 2-stops, 6/pak	37-100444-00	020-030-213
Black/Black, 0.030", Viton, 2-stops, 12/pak	37-100436-00	020-030-307
White/White, 0.040", Viton, 2-stops, 12/pak	37-100437-00	020-030-309
Grey/Grey, 0.050", Viton, 2-stops, 12/pak	37-100438-00	020-030-311
Blue/Blue, 0.065", Viton, 2-stops, 12/pak	37-100439-00	020-030-313

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PlasmaPURE Trace Metal Grade Acids

DESCRIPTION	ASSAY	MOLECULAR WEIGHT	CAS NUMBER	CODE	250 ml	500 ml	1 L	2 L
Acetic Acid	> 99% CH ₃ COOH	60.05	64-19-7	✓⑧	250-036-101	250-036-103	250-036-105	---
Ammonia Solution	20 - 22% NH ₃	17.03	7664-41-7	✓⑧⑥	250-036-107	250-036-109	250-036-111	---
Hydrochloric Acid	32 - 35% HCl	36.46	7647-01-0	✓⑧⑤	250-036-129	250-036-131	250-036-133	250-036-135
Hydrofluoric Acid	47 - 51 % HF	20.01	7664-39-3	✓⑧⑥	250-036-137	250-036-139	250-036-141	250-036-143
Hydrogen Peroxide	30 %	---	---	✓⑧	250-036-113	250-036-115	250-036-117	250-036-119
Nitric Acid	67 - 70 % NNO ₃	63.01	7697-37-2	✓⑧	250-036-121	250-036-123	250-036-125	250-036-127
Sulphuric Acid	93 - 98 % H ₂ SO ₄	98.08	7664-93-9	✓⑧⑤	---	250-036-145	---	---

PerkinElmer / SCIEX ELAN 6000 series, 9000 series + DRC II ICP MS Parts

Torches & Accessories

DESCRIPTION	CROSS REF.	CATALOG #
Torch Body, Elan	N8122006	020-050-072
Quartz Injector, 1.2 mm	N0681631	020-050-182
Quartz Injector, 1.6 mm	O0473292	020-050-183
Quartz Injector, 2.0 mm	N8120529	020-050-184
Alumina Injector, 2.0 mm	N05282184/N8126041	020-050-256
Alumina Injector, 1.5 mm	N8126040/N0582185	020-051-314
Alumina Injector, 0.85 mm	N8126039	020-051-316
Injector Support/Torch Base	N8120116	020-051-353
Quartz Injector, 6100DRC and DRC II, 2.0 mm	WE023948	020-051-355
Quartz Injector, 6100DRC and DRC II, 1.5 mm	WE027005	020-051-357

Spray Chambers & Accessories

DESCRIPTION	CROSS REF.	CATALOG #
Scott Spray Chamber	---	020-050-073
Quartz Scott Spray Chamber	---	020-050-074
Scott Spray Chamber, Water-Cooled	---	020-050-075
Cyclonic Spray Chamber, 50 ml	N8120150	020-051-119
Quartz Cyclonic Spray Chamber, 50 ml	---	020-051-120
Cyclonic Spray Chamber, Water-Cooled, 50 ml	---	020-051-121
Quartz Cyclonic Spray Chamber, 6100DRC, 50 ml, Baffled	WE025221	020-051-136

Nebulizers

DESCRIPTION	CROSS REF.	CATALOG #
Mira Mist, Teflon, (0.2-2.5 ml/min @ 40 psi)	N0777031	020-060-306
Ari Mist HP, PEEK (0.005-1.0 ml/min @ 30-80 psi)	N0777302	020-060-307
Mira Mist, PEEK (0.2-2.5 ml/min @ 40 psi)	N0775330	020-060-308
Mira Mist CE, PEEK (0.005-2.5 ml/min @ 80-90 psi)	---	020-060-312
Mini X-Flow Nebulizer	---	020-060-611

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ICP-MS Cones

DESCRIPTION	CROSS REF.	CATALOG #
Ni Sampler - 6000 / 9000 / DRC	WE02-1140	020-101-064
Ni Skimmer - 6000 / 9000 / DRC	WE02-1137	020-101-065
Pt Sampler - 6000	WE01-4815	020-101-164
Pt Skimmer - 6000	WE01-4816	020-101-165
Extraction Tool for 6000 Sampler	WE01-7142	020-101-100

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ICP-AES/MS
2 x 25 ml, 1000µg/ml standard

Peristaltic Pump Tubing

DESCRIPTION	CROSS REF	CATALOG #
Orange/Red, 0.0075", PVC, 2-stop, 12/pak	N069-5476	020-030-002
Black/Black, 0.030", PVC, 2-stop 12/pak	0990-8587	020-030-007
Red/Red, 0.045", PVC, 2-stop, 12/pak	N068-0375	020-030-010
Black/White, 0.125", PVC, 2-stop, 12/pak	N812-2012	020-030-021
Black/Black, 0.030", PVC, 3-stop, 12/pak	B050-6058	020-033-007
White/White, 0.040", PVC, 3-stop, 12/pak	B050-6742	020-033-009
Red/Red, 0.045", PVC, 3-stop, 12/pak	B019-3160	020-033-010
Purple/Purple, 0.080", PVC, 3-stop, 12/pak	B019-9034	020-033-015
Yellow/Blue/Yellow, 0.060", PVC, 3-stop, 12/pak	B019-3161	020-033-019
Black/White/Black, 0.125", PVC, 3-stop, 12/pak	B050-8310	020-033-021
Black/Black, 0.030", Solvent Flex, 2-stop, 12/pak	0047-3550	020-030-107
Red/Red, 0.045", Solvent Flex, 2-stop, 12/pak	N068-0376	020-030-110
White/White, 0.040", Solvent Flex, 3-stop, 12/pak	B050-7692	020-033-109
Black/Black, 0.030", Silicone, 2-stop, 6/pak	0047-3552	020-030-207
Red/Red, 0.045", Silicone, 2-stop, 6/pak	N069-1595	020-030-210
Black/Black, 0.030", Viton, 2-stop, 12/pak	0990-8587	020-030-307
PerkinElmer Sciex Mixing Kit, PVC, 2-Stops, Bl/Bl:Or/Rd, 4/pak	---	020-049-603
PerkinElmer Internal Standard Mix Kit 4/pak	---	020-049-606

*For a complete list, please contact **SCP SCIENCE**

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