

## NexION® 300/350 ICP-MS



### Sampler and Skimmer Cones

Precision-designed and manufactured, large-orifice sampler and skimmer cones provide superior long-term stability and resist clogging, allowing analysis under both high and low sample-uptake conditions. Nickel is a very rugged, long-lasting material for the majority of sample types, while platinum is the material of choice for more corrosive samples. They have been designed to maximize signal stability and to minimize clogging during extended runs of samples containing high dissolved solids.



#### Nickel Sampler and Skimmer Cones

Type	Part No.
Sampler	W1033612
Skimmer	W1026356



#### Platinum Sampler and Skimmer Cones

Type	Part No.
Sampler	W1033614
Skimmer	W1026907



#### Hyper Skimmer Cone

Type	Part No.
Hyper Skimmer	W1033995



#### Replacement Parts

Description	Part No.
Sampler Gasket	W1040148
Hyper Skimmer O-Ring	09902123
Hyper Skimmer Screw	WE027484
Cone Removal Tool	W1034694
Torch Alignment Tool	WE015554

## Torches

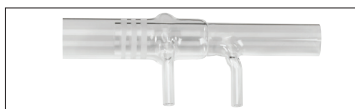


### Demountable Quartz Torch

**Part No.**

N8122006

The EasyGlide™ torch mount and alignment system for the NexION ICP-MS is a demountable design that incorporates a quartz torch with a fully replaceable sample injector made of fused alumina, quartz or sapphire.



### High Efficiency Demountable Quartz Torch

**Part No.**

N8145318

Operates at 25% reduced argon gas flows compared to the standard Demountable Quartz Torch (N8122006).

## Nebulizers



### MEINHARD® Nebulizers

The MEINHARD® Concentric Nebulizer reflects exacting standards in design and manufacturing. Its advantages include simplicity of design and operation, reproducible and self-aligning aerosol, and close fabrication control. They provide excellent sensitivity and precision for aqueous solutions and samples with few dissolved solids (less than 1%). MEINHARD® Nebulizers are self-aspirating.

Model	Material	AR Flow Rate	Uptake Rate	Part No.
Type A	Quartz	1.0 L/min	0.5 mL/min, 50 psig	N8145011
Type C	Glass	1.0 L/min	0.5 mL/min, 50 psig	N8145012

## Spray Chambers

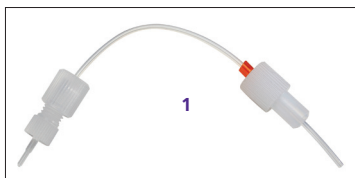


The Cyclonic Spray Chamber relies on momentum to efficiently and quickly remove the larger droplets from the sample mist decreasing any opportunity for occlusion or agglomeration of the smaller droplets. The result is higher efficiency, better precision and faster washouts than other spray chamber designs. For use with ball joint injectors.

- Decreased sample introduction system installation and optimization time due to the preset nature of the spray chamber/nebulizer combination
- More samples per hour due to minimal dead volume and efficient draining

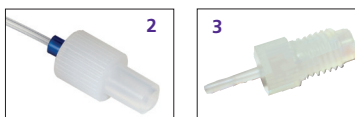
Type	Part No.
Quartz Cyclonic Spray Chamber	N8145013
Glass Cyclonic Spray Chamber	N8145014
Replacement Spray Chamber Nut	N8141420
PFA Spray Chamber with PFA End Cap (Requires PFA body injector N8122411 or N8122412 or N8122413)	N8142000
PFA 6 mm Secure Replacement Nut for Quartz Cyclonic Spray Chambers	N8141420

## Adapters, Fittings and O-Rings

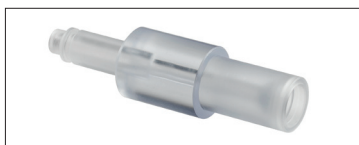


### Adapters and Fittings

Description	Part No.
1 Nebulizer Fitting	N8145016
2 Spray Chamber Drain Fitting	N8145015
3 Male barb CTFE Fitting	N8145017
4 Female barb CTFE Fitting	N8145018



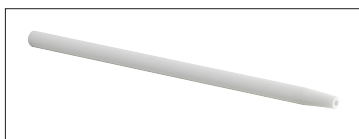
## Adapters, Fittings and O-Rings, *continued*



### O-Rings

Description	Qty	Part No.
Injector Adapter Kit (Includes items listed below)		N8140360
Adapter	1	W1012406
O-Ring 3/8 inch i.d. x 1/16 inch	1	W1008572
O-Ring 1/4 inch i.d. x 1/16 inch	1	W1008573
Injector Spacer	1	W1012409
Injector Nut	1	W1012408
Injector Adapter Kit 2 (Includes items listed below)		N8140527
Injector O-Ring 0.239 i.d. x 0.070 WD	1	09210011
O-Ring 0.551 i.d. x 0.070 WD	1	N8122010
O-Ring 3/8 inch i.d. x 1/16 inch	1	W1008572
Adapter	1	W1012406
Injector Nut	1	W1012408
Injector Spacer	1	W1012409
O-Ring 5/8 inch i.d. x 1/8 inch WD	1	W1013545
O-Ring Kit for Injector Support (Includes items listed below)		N8120100
Injector O-Ring 0.239 i.d. x 0.070 WD	2	09210011
Torch O-Ring 0.364 i.d. x 0.070 WD	2	09210012
O-Ring 0.551 i.d. x 0.070 WD	1	N8122010
O-Ring 5/8 inch i.d. x 1/8 inch WD	1	W1013545

## Injectors



### Alumina Injectors for use with Ryton® sample introduction system

Alumina injectors provide economical HF resistance. They are vacuum baked to reduce contamination. For use only with HF resistant (Ryton®) sample introduction system.

- 2.0 mm i.d. for aqueous solutions and less volatile organic solvents
- 1.5 mm i.d. for reduced sample loading
- 0.85 mm i.d. for use with volatile organic solutions

Dimension	Part No.
2.0 mm i.d.	N8126041
1.5 mm i.d.	N8126040
0.85 mm i.d.	N8126039



### Sapphire Injectors for use with Ryton® sample introduction system

Dimension	Part No.
2.0 mm i.d.	N0695495



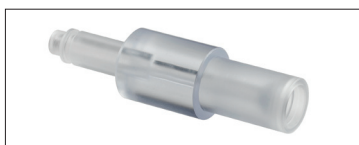
### Quartz Injectors for use with Ryton® sample introduction system

Dimension	Part No.
1.2 mm i.d.	N0681631
1.6 mm i.d.	00473292
2.0 mm i.d.	N8125029



### Quartz Ball Joint Injectors

Dimension	Part No.
0.85 mm i.d.	WE027030
1.5 mm i.d.	WE027005
2.0 mm i.d. (standard with NexION instrument)	WE023948



### Support Adapters

Description	Part No.
Cassette Torch Injector Support Adapter for non-ball joint injectors	W1013266
Cassette Torch Injector Support Adapter for ball joint injectors	W1012406

## Sample Introduction Kits



### PC<sup>3</sup> / PC<sup>3</sup>-LT Peltier Coolers with Oxygen Port

The PC<sup>3</sup> has two preset temperatures +2 °C / -5 °C and is ideal when running aqueous or aqueous/organic mixtures. The PC<sup>3</sup>-LT operates at -20 °C when running 100% volatile organic solvents to reduce the solvent load on the plasma. Includes Quartz spray chamber with additional gas port.

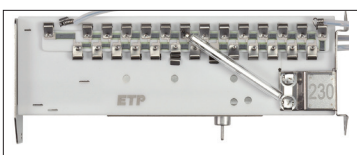
Description	Temperature	Spray Chamber	Part No.
PC <sup>3</sup> Organic Sample Introduction Kit	+2 °C / -5 °C	Quartz	N8142003
PC <sup>3</sup> -LT Organic Sample Introduction Kit	+2 °C / -20 °C	Quartz	N8145099



### Other Sample Introduction Kits

Description	Part No.
PFA-Platinum HF-Resistant Sample Introduction Kit	N8142001
PFA-Sapphire HF-Resistant Sample Introduction Kit	N8142002
HF Sample Introduction Kit (Ryton®)	N8140507

## Detectors

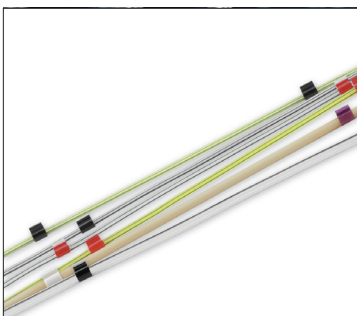


### SimulScan Dual-Stage Detector

The dual-stage detector is an integral part of the NexION ICP-MS SimulScan™ system. This electron multiplier measures both high- and low-level analytes simultaneously. This conserves valuable or limited samples, eliminates the need to perform time-consuming sample dilutions and allows you to quickly characterize unknown samples.

Description	Part No.
NexION 300/350 ICP-MS Detector	N8145000

## Tubing



### Peristaltic Pump Tubing

Description	i.d. (mm)	Stop Colors	Part No.
Santoprene®	1.30	Gray/Gray	N0777444
Flared PVC	0.19	Orange/Red	N0773111
Flared PVC	0.25	Orange/Blue	N0773112
Flared PVC	0.38	Green/Orange	N0777042

### Additional Tubing

Description	Part No.
Sample Uptake Tubing (cm)	WE024375
Drain Tubing (feet)	02506495
Torch Box Drain Assembly	N8140506

### Internal Standards Kits

Description	Part No.
HF-Resistant Internal Standard Kit (Includes items listed below)	N0774067
HF Mixing T-piece	N0777466
Internal Standard Sample Probe	N0777465
EzyFit Sample Tube 0.5 mm i.d.	N0777463
EzyFit with 1/16 inch o.d. x 0.50 mm i.d. x 700 mm long sample tube	N0777436
EzyFit with 1/16 inch o.d. x 0.25 mm i.d. x 700 mm long sample tube	N0777437
UniFit-EzyFit Sample Tube – Qty. 6	N0777061
Vitex® Gripper Paper	
Orange/Blue Flared End PVC Tubing 0.25 i.d. – Qty. 12	N0773112
Non HF-Resistant Internal Standard Kit (Includes items listed below)	N0774068
EzyFit Glass Mixing T-piece	N0777461
Internal Standard Sample Probe	N0777465
EzyFit Sample Tube – Twin	N0777462
EzyFit with 1/16 inch o.d. x 0.50 mm i.d. x 700 mm long sample tube	N0777436
EzyFit with 1/16 inch o.d. x 0.25 mm i.d. x 700 mm long sample tube	N0777437
UniFit-EzyFit Sample Tube – Qty. 6	N0777061
Vitex® Gripper Paper	
Orange/Blue Flared End PVC Tubing 0.25 i.d. – Qty. 12	N0773112



**NexION 300Q/X/D and 350Q/X/D Consumables Kit**

**Part No.**  
**N8140513**

Typical one year's supply of consumables. Consists of the following parts:

<b>Description</b>	<b>Qty</b>	<b>Part No.</b>
Demountable Quartz Torch	2	N8122006
Load Coil	1	WE021816
Quartz Ball Joint Injector 2.0 mm i.d.	2	WE023948
Cassette Torch Injector Support Adapter for Ball Joint Injectors	1	W1012406
Glass Cyclonic Spray Chamber	1	N8145014
Nickel Skimmer Cone	2	W1026356
Nickel Sampler Cone	2	W1033612
Hyper Skimmer Cone	1	W1033995
Sampler Cone Gasket	3	W1040148
Hyper Skimmer O-Ring	2	09902123
Hyper Skimmer Screw	2	WE027484
Santoprene® 1.30 mm Gray/Gray Pump Tubing	4	N0777444
Flared PVC 0.38 mm Green/Orange Pump Tubing	4	N0777042
Drain Tubing (feet)	6	02506495
Sample Uptake Tubing (cm)	12	WE024375
Instrument Filter (left)	2	W1036712
Instrument Filter (back right)	2	W1036713
Spray Chamber Drain Fitting	2	N8145015
Nebulizer Fitting	2	N8145016
Male Barb CTFE Fitting	2	N8145017
Female Barb CTFE Fitting	2	N8145018



**NexION 300S and 350S Consumables Kit**

**Part No.**  
**N8140514**

Typical one year's supply of consumables. Consists of the following parts:

<b>Description</b>	<b>Qty</b>	<b>Part No.</b>
Demountable Quartz Torch	2	N8122006
Load Coil	1	WE021816
Quartz Ball Joint Injector 2.0 mm i.d.	2	WE023948
Cassette Torch Injector Support Adapter for Ball Joint Injectors	1	W1012406
Quartz Cyclonic Spray Chamber	1	N8145013
Platinum Skimmer Cone	1	W1026907
Platinum Sampler Cone	1	W1033614
Hyper Skimmer Cone	1	W1033995
Sampler Cone Gasket	3	W1040148
Hyper Skimmer O-Ring	2	09902123
Hyper Skimmer Screw	2	WE027484
Santoprene® 1.30 mm Gray/Gray Pump Tubing	4	N0777444
Flared PVC 0.38 mm Green/Orange Pump Tubing	4	N0777042
Drain Tubing (feet)	6	02506495
Sample Uptake Tubing (cm)	12	WE024375
Instrument Filter (left)	1	W1036712
Instrument Filter (back right)	1	W1036713
Spray Chamber Drain Fitting	2	N8145015
Nebulizer Fitting	2	N8145016
Male Barb CTFE Fitting	2	N8145017
Female Barb CTFE Fitting	2	N8145018

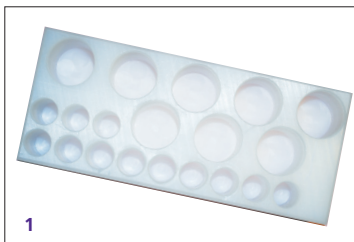
## Autosampler Tubes



### Autosampler Tubes with Caps

Capacity	Size	Type	Qty	Part No.
15 mL	17 mm x 120 mm	Conical Bottom	500	B0193233
50 mL	28 mm x 115 mm	Conical/Freestanding	500	B0193234

## Other Replacement Parts



### Replacement Parts

Description	Part No.
Metal Spill Tray for vacuum pump	N8145022
UV Shield/Spray Chamber Nut	W1037267
Instrument Filter (left)	W1036712
Instrument Filter (back right)	W1036713
Vacuum Pump Fluid – Fomblin® GV80 1 L	N8145003
1 NexION Sample Tray	N8141206
Sample Spill Tray	W1037577

## Standards



### PerkinElmer Pure and Pure Plus Standards

Matrix	Contents	Vol.	Part No.
NexION 300Q and 350Q Solution kit – non-cell			N8140503
	Solution Kit (Includes items listed below)		
	NexION Wash Solution	250 mL	N8145050
	NexION Setup Solution	500 mL	N8145051
	NexION 300Q and 350Q Non-cell Stability Solution	500 mL	N8145053
	NexION Standard/DRC Mode Detection Limit Blank Solution	100 mL	N8145055
	NexION Standard/DRC Mode Detection Limit Solution	100 mL	N8145056
	NexION Dual Detector Solution	100 mL	N8145059
NexION 300X/D/S and 350X/D/S Solution kit – cell instruments			N8140504
	Solution Kit (Includes items listed below)		
	NexION Wash Solution	250 mL	N8145050
	NexION Setup Solution	500 mL	N8145051
	NexION KED Setup Solution	250 mL	N8145052
	NexION 300X/D/S and 350X/D/S Cell Stability Solution	500 mL	N8145054
	NexION Standard/DRC Mode Detection Limit Blank Solution	100 mL	N8145055
	NexION Standard/DRC Mode Detection Limit Solution	100 mL	N8145056
	NexION KED Mode Detection Limit Blank Solution	100 mL	N8145057
	NexION KED Mode Detection Limit Solution	100 mL	N8145058
	NexION Dual Detector Solution	100 mL	N8145059

PerkinElmer Pure and Pure Plus Standards, *continued*

Matrix	Contents	Vol.	Part No.
NexION Setup Solution			
1% HNO <sub>3</sub>	1 µg/L: Be, Ce, Fe, In, Li, Mg, Pb, U	500 mL	N8145051
NexION KED Setup Solution			
1% HCl	10 µg/L: Co 1 µg/L: Ce	250 mL	N8145052
NexION 300Q and 350Q Non-cell Stability Solution			
1% HNO <sub>3</sub>	1 µg/L: Cd, Cu, Mg, Pb	500 mL	N8145053
NexION 300X/D/S and 350X/D/S Cell Stability Solution			
1% HNO <sub>3</sub>	1 µg/L: Cd, Cr, Fe, In, Mg, Pb 10 µg/L: Co, Cu, Se	500 mL	N8145054
NexION Standard/DRC Mode Detection Limit Blank Solution			
0.5% HNO <sub>3</sub>		100 mL	N8145055
NexION Standard/DRC Mode Detection Limit Solution			
0.5% HNO <sub>3</sub>	1 µg/L: Be, Ca, Co, Fe, In, U	100 mL	N8145056
NexION KED Mode Detection Limit Blank Solution			
1% HCl		100 mL	N8145057
NexION KED Mode Detection Limit Solution			
1% HCl	10 µg/L: V, As, Se	100 mL	N8145058
NexION Dual Detector Solution			
2% HNO <sub>3</sub>	200 µg/L: Al, Ba, Ce, Co, Cu, In, Li, Mg, Mn, Ni, Pb, Tb, U, Zn	100 mL	N8145059
NexION AFT Single-Element Solution			
2% HNO <sub>3</sub>	2 µg/L: Fe	100 mL	N8145060
NexION AFT Multi-Element Solution			
2% HNO <sub>3</sub>	2 µg/L: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn	100 mL	N8145061
NexION Wash Solution			
1% HNO <sub>3</sub>		250 mL	N8145050
Internal Standard Mix			
5-10% HNO <sub>3</sub>	10 µg/mL: <sup>6</sup> Li, Sc, Ge, Y, In, Tb, Bi	125 mL	N9303832
Multi-Element Internal Standard			
2% HNO <sub>3</sub>	10 µg/mL: Bi, Ho, In, <sup>6</sup> Li, Sc, Tb, Y	125 mL	N9303834
Quality Control Standard – 21 Elements			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 µg/mL: As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	125 mL	N9300281
Instrument Calibration Standard 2			
5% HNO <sub>3</sub> /tr Tartaric Acid/tr HF	100 mg/L: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn	125 mL	N9301721



### Gold Nanoparticle Standards

Description	Diameter (nm)	Number of Particles/mL	Volume (mL)	Part No.
30 nm Spherical Au Nanoparticle in DI Water	30	2.00E+11	25	N8142300
40 nm Spherical Au Nanoparticle in DI Water	40	8.70E+10	25	N8142301
50 nm Spherical Au Nanoparticle in DI Water	50	4.50E+10	25	N8142302
60 nm Spherical Au Nanoparticle in DI Water	60	2.60E+10	25	N8142303
70 nm Spherical Au Nanoparticle in DI Water	70	1.60E+10	25	N8142304
80 nm Spherical Au Nanoparticle in DI Water	80	1.10E+10	25	N8142305
90 nm Spherical Au Nanoparticle in DI Water	90	7.80E+09	25	N8142306
100 nm Spherical Au Nanoparticle in DI Water	100	5.70E+09	25	N8142307

Visit [www.perkinelmer.com/standards](http://www.perkinelmer.com/standards) for our complete selection of Inorganic Standards.

For a complete listing of consumables and supplies, please visit [www.perkinelmer.com/icpmssupplies](http://www.perkinelmer.com/icpmssupplies)

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