

## Thermo XSeries 2 ICP-MS Consumables

<u>Thermo</u>	<u>Meinhard</u>	<u>Description</u>
<b>Nebulizers</b>		
Quartz	SILQ-50-A0.5	Plus Series ultra high purity quartz concentric nebulizer, Type A. 1 L/min and 0.5 mL/min @ 50 psig (3.4 bar), 0.7 mm (0.030") inlet for low internal volume.
Quartz	TQP-50-A0.5	Plus Series quartz concentric nebulizer, Type A. 1 L/min and 0.5 mL/min @ 50 psig (3.4 bar). 0.7 mm (0.030") inlet for low internal volume.
Quartz	TQ-30-A0.5	Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi
Quartz	TQ-30-A1	Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1110720)
Quartz	TQ-30-A3	Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi
Quartz	TQ-50-A0.5	Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi
Glass	TRP-50-A0.5	TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi
Glass	TR-30-A0.5	Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi
Glass (1201318)	TR-30-A1	Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1201318)
Glass (1040894)	TR-30-A3	Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi (1040894)
PFA (1301660)	ME2040	MicroFlow PFA-ST self-aspirating nebulizer with external ¼-28 threaded connector. Includes one 400µl/min capillary. (1301660)
Poly-Pro	ME4040	PolyPro-ST self-aspirating nebulizer with external ¼-28 threaded connector. Includes one 400µl/min capillary.
PEEK (4600356)	PMM4000	PEEK MiraMist high solids nebulizer. Includes an argon line and sample capillary.
PEEK (4600495)	AM5000	PEEK AriMist low flow medium solids. Includes an argon line and sample capillary.
Cleaner	PRL-02	Cleaning tool for all quartz and glass concentric nebulizers
Cleaner	ME2046-0001	Nebulizer Obstruction Removal Kit for ST Nebulizers

### **Spray Chamber and Accessories**

3200841	ML145016	Quartz Scott spray chamber, jacketed for coolant
3200727	ML145032	Quartz coupling, ball/socket, 90° for Scott spray chamber
3600169	ML145025	Quartz coupling, ball/socket, 17°
3204313	ML145022	Pyrex conical spray chamber, impact, jacketed
3600374	ML145023	Quartz conical spray chamber, impact, jacketed
3600170	ML145024	Quartz conical spray chamber, Peltier cooled
4600508	ML145026	Quartz conical spray chamber, Peltier cooled, small drain
3600093	ML145027	Quartz cyclonic spray chamber
	MP500QD	Internal liquid fitting for spray chamber drain
	ME2124-5471	47mm PFA spray chamber and PureCap endcap
1305940	ME2044-0002	Threaded drain line with grey-grey 2 stop OEM pump tubing (152mm bridge distance)

## Peltier Coolers, Spray Chambers and Nebulizer

1305880	ME4190-60-29	PC <sup>3</sup> Sample Introduction Kit, with nebulizer, Includes:PC3 Peltier-cooler and power supply, quartz baffled cyclonic spray chamber with threaded drain port, flanged teflon drain tubing, and threaded additional gas port. PFA-ST Nebulizer, 4-piece set of Phar-Med peristaltic pump tubing (grey/grey), 2mm O-ring-free quartz injector O-ring free demountable quartz torch
1320290	ME9190-60-29	Full PC <sup>3</sup> -LT Peltier cooled Low Temperature sample introduction system. Includes PC3-LT Peltier cooler with o-ring-free quartz cyclonic spray chamber, o-ring-free quartz torch, demountable quartz injector, PFA-ST nebulizer, sampling probe, and pump tubing
1281340	ME3160-1111-23	O-ring free, baffled quartz cyclonic spray chamber with 1/4-28 threaded auxiliary gas port.
360	ME3160-3111-21	O-ring free, baffled PFA cyclonic spray chamber with 1/4-28 threaded auxiliary gas port. Fits ESI PC3/PC3-FAST for Thermo XSeries2.
1307870	ME3160-1111-23	O-ring free, baffled quartz cyclonic spray chamber with 1/4-28 threaded auxiliary gas port.
1307880	ME3150-0101-X	Right-angle Spray Chamber Adapter for PC3-LT chamber with side addition gas port MicroFlow PFA-ST self-aspirated or pumped nebulizer with external 1/4-28 threaded connector. High performance, chemically resistant nebulizer Includes two capillaries (100µl/min. & 400µl/min.)
1301660	ME2040	

## Torches and Accessories

3601145	ML145050	Quartz torch with ball joint, axial, fixed 1.5 mm injector, 2 locator pins
3601147	ME1203-0020	Quartz torch, fixed 2 mm injector, 2 locator pins
3600969	ML145011	Quartz torch with ball joint, axial, fixed 1.5 mm injector, locator pin
3600791	ML145012	Quartz torch with ball joint, axial, fixed 2 mm injector
3601146	ML145051	O-ring-free quartz torch with pin, demountable
3600970	ML145010	Quartz torch, demountable, axial
1281360	ME1202-0301	ESI o-ring-free precision quartz torch, demountable, axial
3601149	ML145053	Torch bonnet
3601219	MC-01219	Silver plasma screen
1306830	ME5509	PFA connector for adapting ESI injector to 12/5 socket

## O-Ring Free Injectors and Shield Disc (use with precision quartz torch and ESI spray chamber)

	ME1213-3100	1mm Platinum o-ring-free injector
	ME1213-3150	1.5mm Platinum o-ring-free injector
	ME1213-3200	2mm Platinum o-ring-free injector
1281350	ME1203-3180	1.8mm Sapphire o-ring-free injector
	ME1203-3200	2mm Sapphire o-ring-free injector
1305750	ME1233-3100	1mm Quartz o-ring-free injector
	ME1233-3150	1.5mm Quartz o-ring-free injector
1305760	ME1233-3200	2mm Quartz o-ring-free injector
1294260 / 1309260	ME1233-3250	2.5mm Quartz o-ring-free injector

ME1101-3107

O-ring-free Platinum Shield Disc for ESI injector

## HF-Resistant Sample Introduction Kits and Pipette Tips

ME2190-1470-29	PFA-Sapphire upgrade package. Includes PFA spray chamber, PFA PureCap o-ring free endcap, 1.8mm sapphire injector, quartz torch, and one PFA-ST nebulizer
ME2191-1470-19	PFA-Pt upgrade package. Includes two PFA-100 MicroFlow nebulizers, PFA o-ring free endcap, PFA PureCap spray chamber, Pt injector with PFA base and quartz torch.
ME7000-0101	Pre-cleaned Pipet Tip, 100 uL, Teflon PFA, pre-cleaned, pack of 10
ME7000-1001	Pre-cleaned Pipet Tip, 1000 uL, Teflon PFA, pre-cleaned, pack of 10

## Electron Multiplier

1244721	MC-44721	Electron Multiplier, Thermo X-Series II
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## Interface Cones

3004661	MC-04661	Nickel Sample Cone
3600812	MC-00812	Nickel Sample Cone, Cu Base ( <b>Standard Ni</b> )
1067500	MC-67500	Platinum Sample Cone, Cu Base (6.35)
1067501	MC-67501	Platinum Sample Cone, Nickel Core
3601289	MC-01289	Platinum Sampler Cone ( <b>Standard Pt</b> )
3004382	MC-04382	Graphite gaskets for sampler cone (pack of 3)
1310900	MC-10900H	Graphite gaskets for sampler cone (pack of 3) with interface holes
3200860	MC-00860	Nickel Micro-Skimmer Cone
3600811	MC-00811	Nickel Skimmer Cone ( <b>Standard Ni</b> )
3201101	MC-01101	Platinum Micro-Skimmer Cone, XS ( <b>Standard Pt</b> )
1047460	MC-47460	Platinum Skimmer, Nickel base

## Oils

1202445	MC-02445	Inland 19 Ultra Grade, 1 gallon (Drop in replacement equivalent or better)
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## Standard Solutions

1600633	M1-ICPMS-TS-8-100	Tuning Solution 8, Ba, Be, Bi, Ce, Co, In, Pb, Li, Ni, U – 10 µg/mL in 2% HNO <sub>3</sub> (100mL)
1600633	M1-ICPMS-TS-8-250	Tuning Solution 8, Ba, Be, Bi, Ce, Co, In, Pb, Li, Ni, U – 10 µg/mL in 2% HNO <sub>3</sub> (250mL)
1600633	M1-ICPMS-TS-8-500	Tuning Solution 8, Ba, Be, Bi, Ce, Co, In, Pb, Li, Ni, U – 10 µg/mL in 2% HNO <sub>3</sub> (500mL)

## Pump Tubing - More Material Options, Stops and Sizes available at [www.Meinhard.com](http://www.Meinhard.com)

1310620	SanSD-51	Santoprene, 2-stop, 1.30mm (grey/grey), 150mm bridge distance, 12/Pk.
1301670	PVCSD-30-F	PVC 2-stop pump tubing, 0.030 (0.762mm) ID, Black/Black, Flared ends ,12/Pk.
1301680	PVCSD-15-F	PVC 2-stop pump tubing, 0.015 (0.381mm) ID, Orange/Green, Flared ends, 12/Pk.
1305910	SolFSD-15-F	SolventFlex 2-Stop pump tubing (0.381 mm) ID, Orange/Green, Flared ends, 12/Pk.
1305920	PVCSD-20-F	PVC 2-stop pump tubing, 0.020 (0.508mm) ID, Orange/Yellow, Flared ends, 12/Pk.