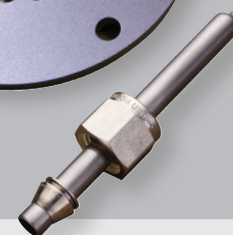
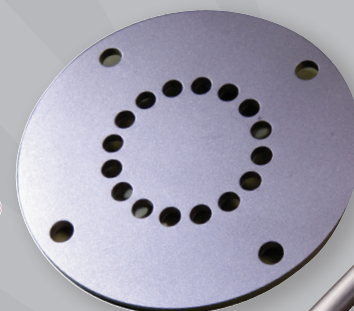
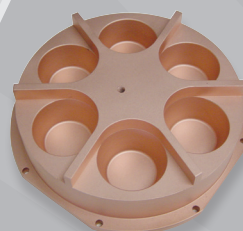
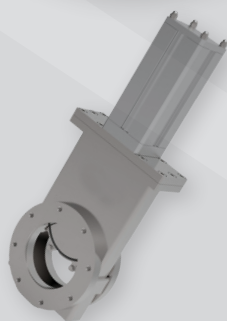
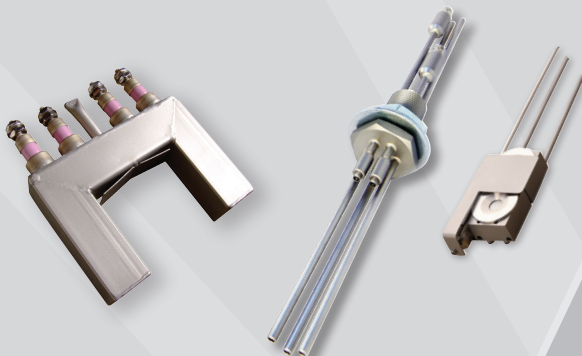


# Fil-Tech

Quality & Savings From Stock®

2026



ONLINE  
SHOPPING  
MADE EASY!



800-743-1743 • 617-227-1133

paula@filtech.com

www.filtech.com Online Ordering

## Quality Crystals®

In 6MHz and 5MHz in Gold, Stress-Relieving Alloy®, Longer Life Gold®, Silver and Advanced Adhesion Alloy®. The metal used for the contact electrode on the crystal has an effect on the crystal's ability to measure film thickness. Choose the best electrode for your coating process.



Fil-Tech	INFICON STYLE	FREQUENCY & P/N
QI8010	Gold	6MHz 008-010-G10
QI8012	Longer Life Gold	6MHz
QI8008	Stress Relieving Alloy	6MHz 679
QI8014	Advanced Adhesion Alloy	6MHz
QI8009	Silver	6MHz 008-009-G10
Fil-Tech	BALZERS STYLE	
QB104G	Gold	5MHz B489-025-T
QB104GL	Longer Life Gold	5MHz
QB104A	Stress Relieving Alloy	5MHz
QB104S	Silver	5MHz BN845-104-T
Fil-Tech	SLOAN STYLE	
QS3952	Gold	5MHz 103952
QS3952GL	Longer Life Gold	5MHz
QS3954	Stress Relieving Alloy	5MHz
QS3950	Silver	5MHz 103950
Fil-Tech	INTELLEMETRICS STYLE	
QI8010F	Gold	6MHz SN66NG
QI8012F	Longer Life Gold	6MHz
QI8008F	Stress Relieving Alloy	6MHz
QI8009F	Silver	6MHz SN66NS

## Liquid Plating Crystals

1" Diameter 5MHz polished, plano/plano crystals for measurements in gas or liquid

Fil-Tech	ELECTRODE	SRS	INFICON
QM1001	\$31 each Cr/Au	0100RX1 \$395/10	149273-1 \$57 each
QM1003	36.50 Ti/Au	0100RX3 395/10	149257-1 53
QM1004	41.50 Ti/Pt	0100RX4 595/10	149274-1 66
QM1007	41.50 Ti/Ni		
QM1012	41.50 Ti/Cu		
QM1015	41.50 Ti/SiO2		
QM1018	36.50 Ti/Cr		

## INFICON Crystals Comparable to Q-SENSE

.550" Diameter 4.95MHz polished, piano/piano, wrap around electrode.

INFICON	ELECTRODE	Q-SENSE
750-1072-G5	\$112/5 Au	QSX 301 \$295/5
SPC-2487-GI	130/5 SiO2	QSX 303 450/5

MOQ: 50 pieces

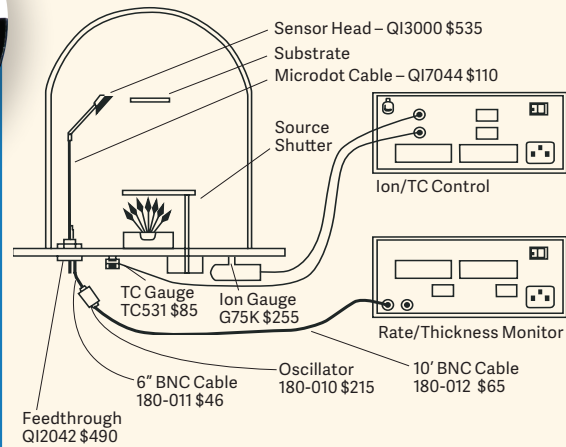
## QCM-I Quartz Crystal Microbalance with Impedance Analysis



The QCM-I is a high sensitivity, mass sensing instrument that probes the interactions of molecules, polymers and biological assemblies with surfaces, label-free and in real time. The QCM-I can measure the hydrated mass and rigidity of nm to micron scale layers at the sensor curve, as well as fluid properties. The measurement uses impedance analysis of a quartz crystal sensor to determine the resonant frequency and bandwidth of the resonant conductance curve, fundamental and overtones. The QCM-I has 2-4 channel measurement with independent temperature and flow control on the channels. Fil-Tech crystals and external sensors are available for a range of applications.

POR

## Typical System



### Monitor/Controller Options

SQM-160	Rate/thickness monitor	\$2,185
STM-2	Deposition Monitor	852
XC3S	Deposition Controller	4,855
SQC-310	Deposition Controller	3,495
IC6	Deposition Controller	13,550
CYGNUS 2	Deposition Controller	13,330

### Components Required for a Complete System

180-010	Remote analog oscillator	\$215
180-011	6" BNC cable M/F	46
180-012	10' BNC cable M/M	65
QI3000	Sensor head single sensor	535
QI7044	30" Microdot cable	110
QI2042	Feedthrough 1" bolt	490
TC531	Thermocouple gauge	85
G75K	Ion gauge, 3/4" kovar, iridium	255

## INFICON Multi-Film Rate/Thickness Monitors and Controllers

SHOP ONLINE NOW!

INFICON  
authorized distributor

Fil-Tech is an authorized distributor for INFICON® products. Choose your INFICON monitor or controller, or call 617-227-1133 with your application requests and for best pricing.



### SQM-160 Multi-Film Rate/Thickness Monitor

Has 2 sensor inputs standard and 4 additional sensor inputs optional with 2 recorder outputs to provide analog rate and thickness signals. Sensor inputs can be assigned to different materials, averaged for accurate deposition, or configured for a dual sensor. Rate displays of 0.1Å/sec or 0.01Å/sec and frequency or mass display can be selected. Four relay outputs allow control of the source of sensor shutters, signal time and thickness setpoints, and signal crystal failure.

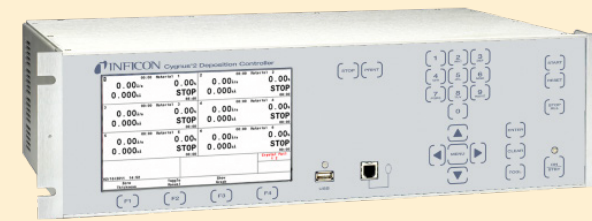
SQM160-S-2-R \$2,185



### STM-2 USB Rate/Thickness Monitor

INFICON's STM-2 combines the simplicity of USB connectivity with the accuracy of a precision measurement engine in a compact, inexpensive package. Ten measurements are taken per second while achieving a resolution of 0.037 Å per measurement. The STM-2 comes with everything you need to connect your sensor/feedthrough to a Windows® PC. Simply connect the included BNC cable from the feedthrough to STM-2 and then connect the STM-2 to your PC using a standard mini-USB cable. STM-2 includes LabVIEW® software and Windows software for operation and data logging of up to eight STM-2s simultaneously.

STM-2 \$852



### Cygnus 2 Thin Film Deposition Controller

Provides exceptional value by combining the proven performance of INFICON thin film controllers with unique features, all designed for you to achieve the most from your OLED process. Cygnus 2 uses the ModelLock frequency measurement system to provide stable, high-resolution rate and thickness measurement with an industry leading rate resolution of .004..Å/s every 1/10 second.

CYG2-1101000 \$13,330



### Zevision IMC300 Rate and Thickness Controller

INFICON's next-generation Zevision® IMC300 deposition controller offers new patented technology for today's optical coaters. The Zevision IMC300 maximizes reproducibility and uniformity with the highest thickness accuracy, the best measurement resolution, and the lowest rate noise using the ModelLock measurement system. The IMC300 maximizes the number of runs possible while lowering crystal consumable cost. Offered with Sequential Deposition and Codeposition.

IMC300-1001A00 POR  
IMC300-2001A00 POR



### SQC-310 Thin Film Deposition & Codeposition Controller

Offers advanced electronics, improved display and an affordable price. Choose SQC-310 for sequential deposition or the SCQ-310C for codeposition. SQC-310 comes standard RS-232 and USB, a "Quick Setup" menu, Windows® program, is accurate with ±0.03 Hz resolution at 10 reading/second and storage capacity for up to 100 processes, 1,000 layers and 50 films. Available in English or Chinese.

SQC310-2-R-1-C \$3,495  
SQC310C-4-R-1-C \$6,305



### IC6 Thin Film Deposition Controller

Provides exceptional value by combining the proven performance of INFICON thin film controllers with unique features, all designed to achieve the most from your deposition process. The IC6 uses the ModelLock frequency measurement system to provide stable, high-resolution rate and thickness measurement with an industry-leading rate resolution of 0.0043 Å/s every 1/10 second.

IC6-110100 \$13,550

# FEEDTHROUGHS

**Single**

**Single 1" Bolt**  
**QI2042**  
 \$490  
 For Single Sensors

**Single 2 3/4" Flange**  
**QI2043**  
 \$560  
 For Single Sensors

**Dual**

**Dual 1" Bolt**  
**QI2000** \$1,050  
 For Dual Sensors

**Dual 2 3/4" Flange**  
**QI2080**  
 \$895  
 For Dual Sensors

All feedthrough lines 3/16" OD steel tubing.  
 Custom feedthroughs available.

## Sensor Head Parts, Oscillators and Cables

PART	INFICON	Fil-Tech
Ceramic Retainer	007-023 \$103	QI7023 \$90
Finger Spring	750-171-P1 41.50	QI0171 40
Crystal Holder	750-172-G1 94	QI0172 84
Crystal Holder	Fil-Tech Style	QI3010 84
Oscillator	783-500-013 260	180-010 215

CABLES	INFICON	Fil-Tech
Coaxial 30"	007-044 \$130	QI7044 \$110
Special Length		QI7044X 130
Right Angle		QI7045 110

Cables have an extra layer of Teflon to protect the shielded cable from deposition material, insuring longer life.

CABLES	PHELPS	Fil-Tech
Unsheathed 8"	Pe16016	QP16016 \$115
Unsheathed 36"	Pe16018	QP16018 115
Unsheathed 48"	Pe16020	QP16020 115

Cables have exposed metal sheath.

# SENSOR HEADS

SHOP ONLINE NOW!

**Single**

**In Line QI3000**  
 \$535

**In Line w/Shutter**  
**QI5000**  
 \$2,130

**Right Angle**  
**QI4000**  
 \$535

**Right Angle w/Shutter**  
**QI4050**  
 \$2,130

**Round Perpendicular**  
**QI3500\***  
 \$605

Custom sensor heads, feedthroughs and assemblies available.

All sensor lines 1/8" OD stainless tubing except QI3600 with 3/16".

WELD FREE | NO WATER LEAKS | REMOVABLE FROM WATER LINES | SPECIAL ORDER SENSORS AVAILABLE

**Dual with Shutter**

**In Line QI6000**  
 \$2,145

**Right Angle QI7000**  
 \$2,145

**Round Perpendicular QI3600**  
 \$2,600

## Positional Sensor Heads

**QI1100** \$1,340  
 Includes Coaxial Cable

## Bakeable Sensor Heads

Our Bakeable Sensor Heads are used for UHV and High Temp processes up to 300° C. The QI1200 is TIG welded to a rotatable conflat flange. A 1" baseplate bolt is available but the Viton O-ring will limit the temp to 205°C. The coaxial connection is sealed inside a rigid 3/16" OD stainless steel tube with cable included. Cooling tubes are 3/16" OD to maximize cooling. Sensor heads can be built to order with your choice of feedthrough type and length.

**QI1200** \$1,365 Includes Coaxial Cable

## Sputter Head With Internal Oscillator & Deep Water Pocket

**QP4600**

\*Head not removable

### Features

- Stainless steel construction
- Internal oscillator for 5MHz and 6MHz
- Removable from water lines for easy repair
- Deep water pocket for superior cooling
- Copper construction option for superior cooling

Sputter Head, SS	QP4500	\$695
Sputter Head Cap, SS	QP4501	90
Sputter Head, Copper	QP4600	750
Sputter Head Cap, Copper	QP4601	125

Specify crystal diameter for correct crystal holder style

## QC12 Crystal Sensor System

Sensor head holds 12 crystals and allows continuous monitoring without process interruption

### System Includes

- 2 Multi-crystal sensor heads
- 2 1" bolt or 2 3/4" flange feedthroughs
- Controller
- Vacuum, air and cooling cables
- 12 Complimentary Quality Crystals

The QC12 is precise and reliable and features a small footprint with easy installation and reload. Compatible with INFICON, Sigma, Maxtek and Sycon monitors.

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Specify Length (L)

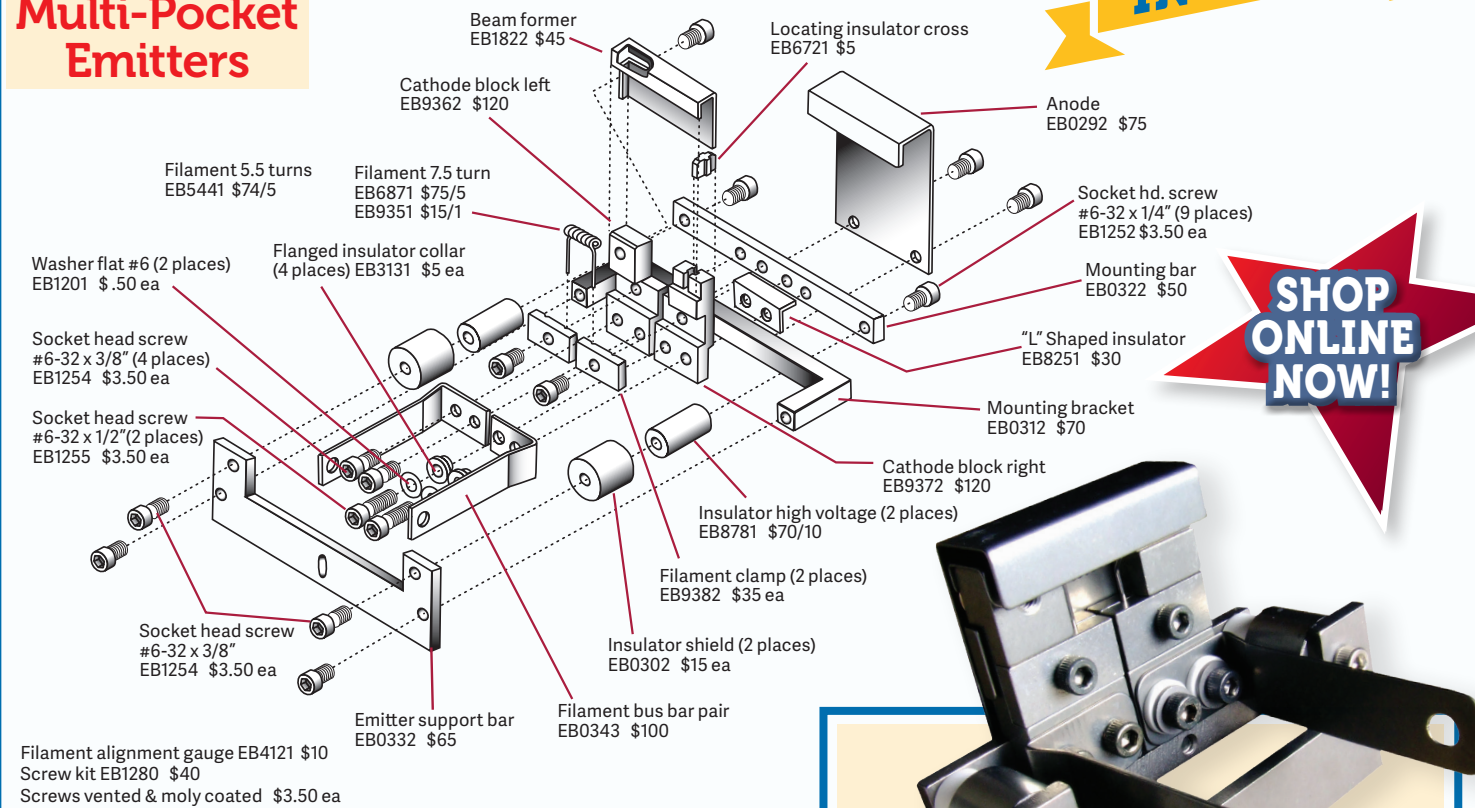
All cooling and electrical tubing have a TIG welded seal

# ELECTRON BEAM GUN PARTS

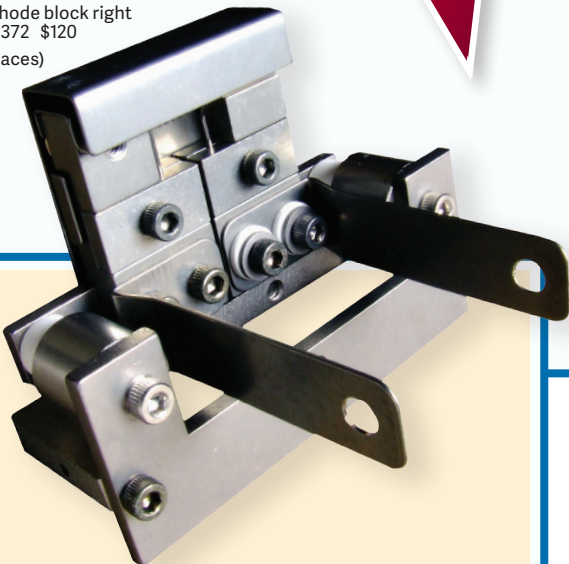
Temescal • Satisloh • Telemark | Filaments • Insulators • Emitters

**ALL ITEMS  
IN STOCK**

## Multi-Pocket Emitters



**SHOP  
ONLINE  
NOW!**



Fil-Tech supplies electron beam gun replacement parts for your Multi-Pocket and High Performance emitters from Temescal, Telemark, Thermionics, Satisloh, MeiVac, Sloan, and Leybold. Our insulators, filaments, metal parts and electromagnetic coils are drop-in replacements for the listed OEM parts. We can also rebuild your emitters.

## Multi-Pocket Emitter Parts

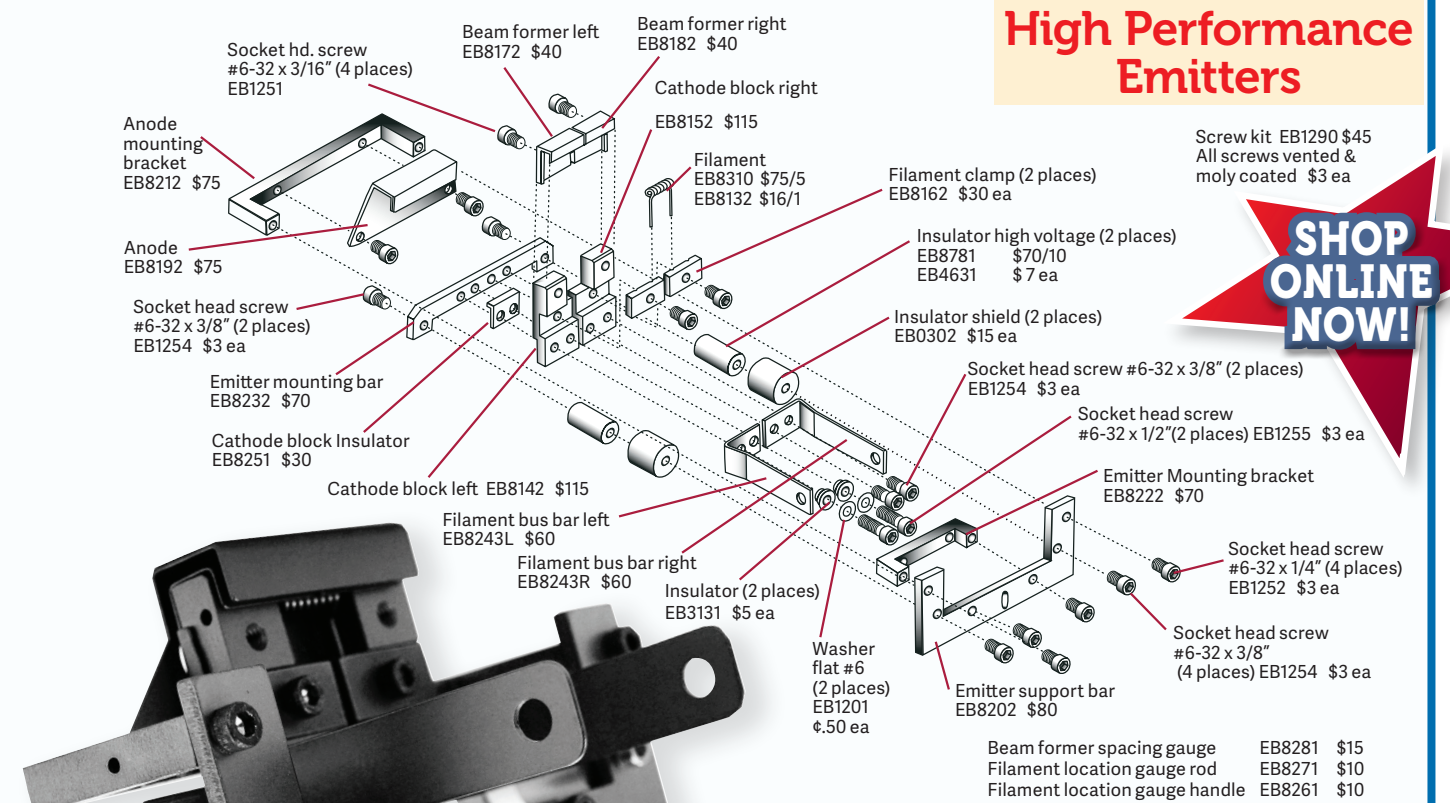
	TEMESCAL	TELEMARK	Fil-Tech	
Anode	0204-0292-0	273-0003-1	EB0292	\$75
Beam Former	0415-1822-0	273-0004-2	EB1822	45
Beam Former, Tantalum	0303-9392-0	N/A	EB9392	55
Cathode Block, Left	0303-9362-0	273-0031-1	EB9362	120
Cathode Block, Right	0303-9372-0	273-0032-1	EB9372	120
Emitter Support Bar	0204-0332-0	273-0018-1	EB0332	65
Filament Clamp	0303-9382-0	273-0033-3/273-0033-4	EB9382	35
Filament Bus Bar Set	0204-0343-3	273-0035-1/273-0036-1	EB0343	100
Insulator Shield	0204-0302-0	273-0011-1	EB0302	15
Mounting Bar	0204-0322-0	273-0017-1	EB0322	50
Mounting Bracket	0204-0312-0	273-0019-1	EB0312	70
Seal, Quad Ring	2108-0215-0	N/A	EB0215	2
Seal, RL Gasket	0020-4811-2	N/A	EB4811	9
Emitter Assembly	0204-0284-0	273-0150-1	EB0284	745

Emitter Assemblies	TEMESCAL	TELEMARK	Fil-Tech	
Multi Pocket	0204-0284-0	273-0150-1	EB0284 Temescal EB0150M Telemark	\$745
Single Pocket	0304-1914-0	253-0150-1	EB1914	700
High Performance	0916-8294-0	N/A	EB8294	825
Emitter Rebuilding Service*	N/A	N/A	EBREBLD	500

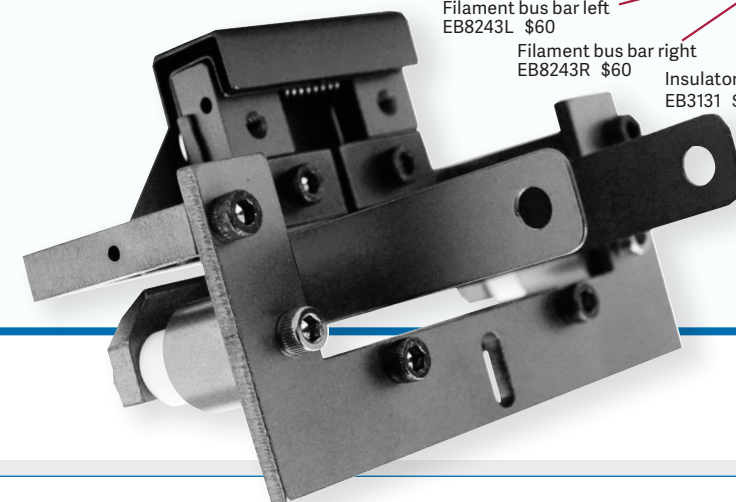
\*Includes glass beading and chemically cleaning all metal parts, replacing filament, screws (all vented), insulators, and reassembling. Metal parts not included.

Insulators	TEMESCAL	TELEMARK	Fil-Tech	
Flanged/Collar	0303-3131-0	273-0006-1	EB3131	\$5
Locating/Cross	0303-6721-0	273-0005-1	EB6721	5
High Voltage	0602-8781-0	273-0010-1	EB8781	70/10
High Voltage	0418-4631-0	273-3010-1	EB4631	7
Cathode Block "L" Shaped	0916-8251-0	273-0008-1	EB8251	30
Telemark and Temescal parts are interchangeable.				
SLOAN	126-116		EB6116	\$22

## High Performance Emitters



**SHOP  
ONLINE  
NOW!**



## Filaments

		Fil-Tech		
TEMESCAL	SuperSource®	0317-6871-0	EB6871	\$75
		0303-9351-0	EB9351	15/1
		0515-5441-0	EB5441	74
TELEMARK	High Performance®	0916-8310-0	EB8310	75
		0916-8132-0	EB8132	16/1
		273-0001-1	EB0001	74
THERMIONICS	Multi Pocket	273-0002-1	EB0002	74
		A112153	EB6871	75
SATISLOH	SuperSource	A7500823P-122M	EB6871	75
		A7500823P-005M	EB6871-1	85
SLOAN	270 Gun	126-710	EB7910	150
LEYBOLD	Hooked Ends	10-094-226	EB4226	210/10
		812180313	EB0313	175
JEOL	Half moon			

All filaments 5 per box except otherwise indicated.

Telemark parts can be ordered using Temescal part numbers.

## High-Performance Emitter Parts

	TEMESCAL	Fil-Tech	
Anode	0916-8192-0	EB8192	\$75
Anode Mounting Bracket	0916-8212-0	EB8212	75
Beam Former, left	0916-8172-0	EB8172	40
Beam Former, Right	0916-8182-0	EB8182	40
Beam Former Spacing Gauge	0916-8281-0	EB8281	15
Cathode Block Insulator	0916-8251-0	EB8251	30
Cathode Block, Left	0916-8142-0	EB8142	115
Cathode Block, Right	0916-8152-0	EB8152	115
Emitter Mounting Bar	0916-8232-0	EB8232	70
Emitter Mounting Bracket	0916-8222-0	EB8222	70
Emitter Support Bar	0916-8202-0	EB8202	80
Filament Bus Bar, Left	0916-8243-4	EB8243L	60
Filament Bus Bar, Right	0916-8243-5	EB8243R	60
Filament Clamp	0916-8162-0	EB8162	30
Emitter Assembly	0916-8294-0	EB8294	895

## Electromagnetic Coil

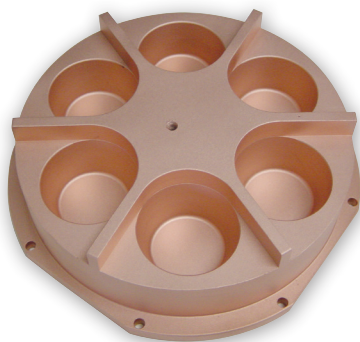
TEMESCAL	Fil-Tech
0312-6923-0 \$1,690	EB6923 \$1,550



Do you have a MDC Vacuum Products e-vap® source with a HF emitter assembly? Call us for replacement emitter assemblies and component parts.

## Crucibles

All Crucibles and Covers are OFHC for Temescal and Telemark electron beam guns.



SIZE	TEMESCAL	Fil-Tech
4x15cc Pockets	0715-8444-0	\$1,995 EB8444 \$1,850
6x15cc Pockets	0715-8504-0	1,995 EB8504 1,925
4x25cc Pockets	0715-8454-0	1,995 EB8454 1,850

SIZE	TELEMARK	Fil-Tech
6x15cc Pockets	271-0255-3	\$2,250 EB0255-3 \$2,135
4x25cc Pockets	271-0220-3	2,250 EB0220-3 2,000
6x25cc Pockets	271-0257-3	2,250 EB0257-3 1,935

All high water flow

## Crucible Covers

SIZE	TEMESCAL	Fil-Tech
4 Pockets	0715-8143-0	\$675 EB8143 \$650
6 Pockets	0715-8153-0	780 EB8153 760

SIZE	TELEMARK	Fil-Tech
4 Pockets	271-0073-1	\$1,150 EB0073 \$715
6 Pockets	271-0074-1	1,150 EB0074 715

## Silicon Dioxide

High purity SiO<sub>2</sub> specifically designed for electron beam evaporation.

### SPECIFICATIONS

Purity	99.99%	Melting point	1713°C
Form	Granular	Refractive index	n/d 1.46 @500 nm

### ORDERING INFORMATION

EM0024-5	2-4 Granular size (mm)	\$100 (500g)
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## Crucible Liners

Fil-Tech supplies 4cc, 7cc, 15cc, 25cc, 30cc and 40cc crucible liners for Temescal and Telemark electron beam gun crucibles. Available in Graphite, Tungsten, Molybdenum, Aluminum Oxide, Boron Nitride, Copper, Intermetallic, Tantalum, and Vitreous Carbon. We can also fabricate custom liners for your e-beam guns.



	SIZE	REMARKS	TEMESCAL	TELEMARK	Fil-Tech
GRAPHITE	7CC		0627-6172-1	271-7007-1	EC0007-1 \$42
	15CC		0627-6172-3	271-7015-1	EC0015-1 55
	25CC	4 Pocket	0627-6172-5	271-7025-1	EC4025-1 65
	25CC	6 Pocket	N/A	271-7025-2	EC6025-1 65
	30CC	W/Web	N/A	271-7030-1	ECW030-1 105
	30CC	W/O Web	N/A	271-7030-2	EC0030-1 80
	40CC		0627-6172-7	271-7040-1	EC0040-1 85
TUNGSTEN	7CC		0627-6152-1	271-7008-9	EC0007-2 \$190
	15CC		0627-6152-3	271-7016-9	EC0015-2 205
	25CC	4 Pocket	0627-6152-5	271-7026-9	EC4025-2 290
	25CC	6 Pocket	0627-6152-6	271-7027-9	EC6025-2 335
	30CC	W/Web	N/A	N/A	ECW030-2 250
	30CC	W/O Web	N/A	N/A	EC0030-2 310
	40CC		0627-6152-7	271-7041-9	EC0040-2 350
MOLYBDENUM	7CC		0627-6162-1	271-7007-3	EC0007-3 \$115
	15CC		0627-6162-3	271-7015-3	EC0015-3 110
	25CC	4 Pocket	0627-6162-5	271-7025-3	EC4025-3 160
	25CC	6 Pocket	N/A	271-7025-4	EC6025-3 200
	30CC	W/Web	N/A	271-7030-3	ECW030-3 200
	30CC	W/O Web	N/A	271-7030-4	EC0030-3 230
	40CC		0627-6162-7	271-7040-3	EC0040-31 215

## MARK II Cathode Tip & Keeper

	VEECO	Fil-Tech
MARK II Cathode Tip	B17968/SP \$380	IS17968 \$335
MARK II Keeper	A17973 \$157	IS17973 \$75

## ION SOURCE PARTS

- Veeco Mark I & Mark II • Ion Tech
- Satisloh • Kaufman & Robinson

Filaments	VEECO	SATISLOH	Fil-Tech
MARK I	A30274 \$7.20	A7500800Q-131M	IS30274 \$6
MARK II	A16962 7.60	A7500800Q-101M	IS16962 5

VEECO / ION TECH	Fil-Tech
3&5cm Cathode 0503-107 \$50	IS3107 \$12
3cm Neutralizer 0503-063	IS3063 14
5cm Neutralizer 0505-001-003 64	IS1003 6

KAUFMAN & ROBINSON	Fil-Tech
EH1000 HFL-A01	ISKRLA01 3.50
EH200 & EH400 HFM-A01	ISKRMA01 3

Insulators	VEECO	SATISLOH	Fil-Tech
MARK I	1451001 \$7.82	A7500800Q-136M	IS1001 \$6
MARK I & II	10-32M	A7500800Q-167M	IS1032 6.50
	10-32F	A7500800Q-134M	IS1032F 10
	6-32F		IS0632F 12
	6-32M		IS0632M 8
	6-MS	8.50	IS06MS 8
	1/4-20M	15.60	IS2520M 12
	1/4-20F	15.60	IS2520F 12

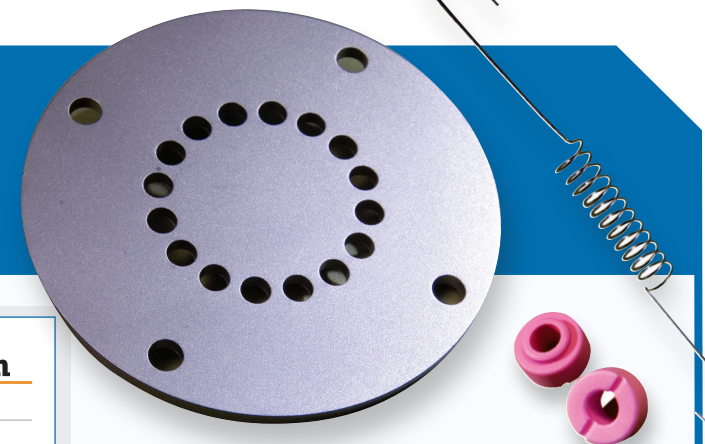
  

VEECO/ION TECH 3 & 5CM	Fil-Tech
0500-035 M \$7.35	IS0035 \$6
0500-036 F 9.80	IS0036 7
0500-037 M 8.50	IS0037 7

KAUFMAN & ROBINSON	Fil-Tech
10-32M Insulator	IS1032 \$6.50
10-32M-2 Insulator	IS0035 6
6-32M Insulator	IS0632M 8
1/3-20m-1 Insulator	IS2520M 12
REFLECTOR ISKR1012G Graphite Reflector	EH10-12-CG 75

## Gas Distributors

	VEECO	SATISLOH	Fil-Tech
MARK I	B18005-1 Graphite \$356	A7500800Q-134M	IS18005G \$100
	B18005-3 Stainless 75	A7500800Q-135M	IS18005S 75
	B18005-5 Titanium 455		IS18005T 100
MARK I MODIFIED HOLES	B18005-1A Graphite		IS18005G-1 100
	B18005-2A Stainless		IS18005S-1 80
	B18005T-1 Titanium		IS18005T-1 100
MARK II	B16931-1 Graphite 554	A7500800Q-174M	IS16931G 240
	B16931-2 Stainless 109	A7500800Q-154M	IS16931S 65
	B16931-5 Titanium 209	A7500800Q-202M	IS16931T 100



Replacement parts for Veeco Mark I and II, Ion Tech, Satisloh and Kaufman & Robinson ion source equipment. Filaments, insulators, anodes, gas distributors, cathode tips, keepers and other parts are drop-in replacements for the competitive parts listed and offered from stock at competitive pricing.

SHOP ONLINE NOW!

## Anodes

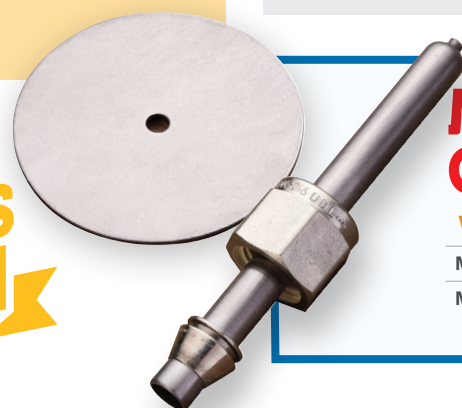
	VEECO	SATISLOH	Fil-Tech
MARK I	B18003-1 Graphite \$77	A7500800Q-132M	IS18003G \$65
	B18003-2 Stainless 57	A7500800Q-133M	IS18003S 55
MARK II	B16933-1 Graphite 196	A7500800Q-175M	IS16933G 160
	B16933-2 Stainless 144	A7500800Q-166M	IS16933S 85

## Mark II Parts

Mark II	Description	Fil-Tech
B16923	Pole Piece, Outer	IS16923 \$202
B16927	Alnico-5 Magnet	IS16927 67
B16928	Support Plate	IS16928 361
B16929	Baffle	IS16929 26
B16930	Spacer	IS16930 28/3
B16932	Support, Back Anode	IS16932 185
B16934	Support, Front Anode	IS16934 198
B16935	Tie Rod, Short	IS16935 38/2
B16936	Tie Rod, Long	IS16936 38/2
B16937	Cathode Connection	IS16937 105/2
B16938	Anode Connection	IS16938 19
B16939	Support, Cathode	IS16939 122/2
B16940	Knob, Hold Down	IS16940 50/2
B16944	Retainer, Cable	IS16944 106/3
B16946	Cover, Empty Socket	IS16946 70
B16947	Work Station	IS16947 100
B29958	Pin, Alignment	IS29958 42/2
B29959	Screw, Hold Down	IS29959 72/2
B29960	Socket	IS29960 298
B29961	Plug	IS29961 455

SHOP ONLINE NOW!

ALL ITEMS IN STOCK



Call 800-743-1743 For a complete listing of Mark I, I+, II and II+ parts.

# Thermocouple Gauge Tubes

For semiconductor and vacuum applications. All of our thermocouples are drop-in replacements for the OEM gauges offered at a savings.



COMPETITION		Fil-Tech	
Agilent	F0472301	TC531	\$85
Agilent	F0472310	TC531VCR	190
AMAT	F2518001	TC004V	57
AMAT	3310-01012	TC531	85
AMAT	3310-01074	TC531VCR	190
AMAT	3310-00236	TC6M	80
AMAT	3310-01071	TC6MVCR	190
Axcelis	3300008	TC004V	57
Axcelis	33001330	TC004KF16	190
Axcelis	33000002	TC002	115
Axcelis	33001009	TC3309	75
Axcelis	7435-0001-0001	TC7435-1	100
Axcelis	7435-0003-0001	TC7435-3	105
CVC	GTC-004	TC004	57
CVC	GTC-036	TC036	65

COMPETITION		Fil-Tech	
Hastings	DV-6M	TC6M	\$80
Hastings	DV-6-VCR	TC6MVCR	190
Hastings	DV-6-KF16	TC6MKF16	190
Hastings	DV-6-KF25	TC6MKF25	215
Hastings	DV-4D	TC4D	90
MKS	270006	TC6M	80
MKS	8112105	TC6MVCR	190
MRC	405052	TC520	120
Novellus	60-00005-00	TC6M	80
Novellus	60-00180-00	TC6MKF25	215
Temescal	6920-4263-0	TC6M	80
Thermionics	6343-004M	TC004V	57



## InstruTech® Convection Gauges

We offer the complete InstruTech line of low cost, drop-in plug compatible replacements for Convector® gauges. Call for pricing.

FITTING	HORNET 400 Fil-Tech	HORNET 401 Fil-Tech	HORNET 402 Fil-Tech
NW16KF	IGM400YBX \$908	IGM401YBD \$1,108	IGM402YBD \$1,364
NW25KF	IGM400YCX 924	IGM401YCD 1,132	IGM402YCD 1,400
NW40KF	IGM400YDX 935	IGM401YDD 1,144	IGM402YDD 1,414
2 3/4CF	IGM400YFX 948	IGM401YFD 1,158	IGM402YFD 1,414
1/2" Cajon 8VCR	IGM400YHX 948	IGM401YHD 1,158	IGM402YHD 1,414

\*275071: Novellus 27-229979  
 \*\*275203: Axcelis 3300317  
 \*\*\*275185: AMAT 275262  
 Novellus/Lam 77-1090453-001  
 Novellus 60-00055-00

FITTING	WORKER BEE	MKS Fil-Tech	SUPER BEE	MKS Fil-Tech	STINGER	MKS Fil-Tech
1/8" NPT	CVG101GA	275071* \$148	CVM201GAA	275850 \$559	CVM211GAA	275800 \$388
NW16KF	CVG101GB	275203** 173	CVM201GBA	275865 586	CVM211GBA	275806 409
NW25KF	CVG101GC	275196 191	CVM201GCA	275867 605	CVM211GCA	275807 420
NW40KF	CVG101GD	275316 203	CVM201GDA	275858 622	CVM211GDA	275808 433
1/4" VCR	CVG101GG	275185*** 191	CVM201GGA	275851 605	CVM211GGA	275801 420

# Thermocouple Controllers

### DIGITAL PANEL MOUNT Fil-Tech

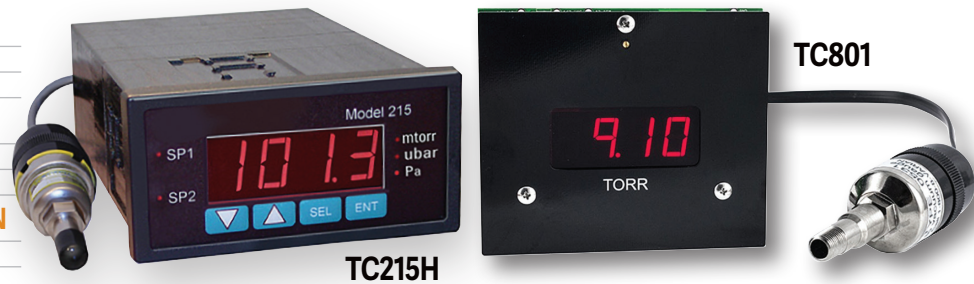
TC801	TC531 Tube	\$600
TC215H	TC6M Tube	995

### DIGITAL PANEL MOUNT SINGLE STATION

TC101D	TC531 Tube	505
TC201D	TC6M Tube	505

### DIGITAL CABINET MOUNT SINGLE STATION

TC101DC	TC531 Tube	540
TC201DC	TC6M Tube	540



## MG15 Multi Gauge Ion Controller

Supports 4 Active & up to 3 Passive Gauge

Our MG15 ion gauge controller can support up to 4 active gauges and 3 passive gauges, extending the measurement range to 2 x 10<sup>-12</sup> mbar. The MG15 supports all Bayard Alpert style gauges, Baratron, UHV nude gauges and others. It can be remotely controlled by one of its available interfaces and has 10 individually programmable set points with threshold and hysteresis functions. The MG15 can support four active gauges and up to three passive gauges. Price varies with 1, 2 or 3 passive gauges.

POR

## Ion Implantation

AXCELIS	DESCRIPTION	Fil-Tech	PRICE
3300002	3/4" Glass, Twin Tungsten	G75PT	\$175
7631-0001-0002	3/4" Kovar, Twin Tungsten	G75KT	210
3300008	Thermocouple Gauge	TC004V	57

AMAT	DESCRIPTION	Fil-Tech	PRICE
5300019	1" Glass, Twin Tungsten	G100PT	\$180
K7360301	1" Glass, Twin Tungsten	G100PT	180
4053050	1" Kovar, Twin Tungsten, 2 3/4" Flange	G100KTF	267
3310-90003	1" Glass, Twin Tungsten	G100PT	180
F2518001	Thermocouple Gauge	TC004V	57
3310-00236	Thermocouple Gauge	TC6M	80
3310-01071	Thermocouple Gauge VCR	TC6MVCR	185
3310-01012	Thermocouple Gauge	TC531	85
3310-01074	Thermocouple Gauge VCR	TC531VCR	175

LAM/NOVELLUS	DESCRIPTION	Fil-Tech	PRICE
27-229-700-00	1" Glass, Iridium, PT Coated, Broad Range	G8136P/1	270
60-00005-00	Thermocouple Gauge	TC6M	80
60-00180-00	Thermocouple Gauge VCR	TC6MVCR	175

SEN	DESCRIPTION	Fil-Tech	PRICE
33S0298	3/4" Glass, Twin Tungsten	G75PT-02S	180

## Vacuum Applications

AGILENT	DESCRIPTION	PRICE	Fil-Tech
X3004-64301	1" Glass, Iridium	245	G100P 222
X3004-64302	1" Kovar, Iridium	278	G100K 250
X3004-64303	1" Kovar, Iridium, 2 3/4" Flange	353	G100KF 315
X3004-64304	3/4" Glass, Iridium	233	G75P 215
X3004-64305	3/4" Kovar, Iridium	266	G75K 255
K7360301	1" Glass, Twin Tungsten	218	G100PT 180
K7360302	1" Kovar, Twin Tungsten	258	G100KT 210
K7360303	3/4" Glass, Twin Tungsten	218	G75PT 175
K7360304	3/4" Kovar, Twin Tungsten	258	G75KT 210
K7360307	1" Kovar, Twin Tungsten, 2 3/4" Flange	323	G100KTF 267
K2500301	1" Glass, Iridium, Pt Coated, Broad Range	270	G8136P/1 270
K2500302	1" Kovar, Iridium, Pt Coated, Broad Range	350	G8136K/1 350
K2500303	1" Kovar, Iridium, Pt Coated, 2 3/4" Flange, BR	455	G8136F 455

NO LONGER AVAILABLE  
 STILL AVAILABLE AT FIL-TECH

MKS	DESCRIPTION	PRICE	Fil-Tech
274102	3/4" Glass, Iridium	270	G75P 215
274103	3/4" Kovar, Iridium	275	G75K 255
274105	1" Glass, Iridium	N/A	G100P 222
274106	1" Kovar, Iridium	320	G100K 255
274107	3/4" Kovar, Iridium, 2 3/4" Flange	440	G75KF 320
274108	1" Kovar, Iridium, 2 3/4" Flange	475	G100KF 315
274012	3/4" Glass, Twin Tungsten		G75PT 175
274013	3/4" Kovar, Twin Tungsten		G75KT 210
274015	1" Glass, Twin Tungsten	191	G100PT 180
274016	1" Kovar, Twin Tungsten		G100KT 210
274132	1" Kovar, Iridium, KF25 Flange	395	G100KF25 315

MRC	DESCRIPTION	PRICE	Fil-Tech
4050300	.709" Glass, Twin Tungsten		G71PT 200



# Ionization & Thermocouple Gauge Tubes



All Fil-Tech ionization gauge tubes are identical or functionally equivalent to the competitive tubes listed. They are all manufactured by two companies and privately labeled. See comparative prices for savings.



## INFICON Vacuum Gauges & Controllers



Fil-Tech distributes INFICON's comprehensive range of vacuum gauges and controllers designed for precise measurement and monitoring of vacuum levels in industrial processes. INFICON advanced instruments deliver accurate, real-time data, ensuring reliable process control and efficiency across various applications. Contact Fil-Tech for competitive pricing.

<p>Trigon BCG552 Hot Ionization Gauge</p> <p>ATM to Ultra High Vacuum TripleGauge®</p> 	<p>Trigon BAG552 Hot Ionization Gauge</p> <p>Medium to Ultra High Vacuum Single Gauge</p> 	<p>MPG40X Cold Cathode Gauges</p> <p>Inverted Magnetron Pirani Gauges, measure from 5 x 10<sup>-9</sup> mbar to atmosphere</p> 	<p>PSG50X Pirani Gauge</p> <p>ATM to Medium Vacuum Gauge, high volume standard applications</p> 	<p>BAG302 Hot Ionization Gauges</p> <p>Single Hot Ionization gauge OLED Display, RS485</p> 	<p>SKY® CDG025D Capacitance Manometers</p> <p>Full scale 0.0...1000 Torr/mbar</p> 
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## Leak Detector Filaments

Fil-Tech's LD10's are drop-in replacements for the OEM part. Our filament is welded into the slotted posts for greater reliability and longer life.



LD7



LD10

FILAMENT	ALCATEL	Fil-Tech	
Filament	053146	LD10	\$150
Collector Single	083485	LD11	35
Collector Double	101127	LD12	40

FILAMENT	AGILENT	Fil-Tech Repair Exchange	
Tungsten	82850301	LD7RE	\$80
Iridium	82850302	LD8RE	110

## Nude Gauges & Filaments



Visit [www.filtech.com](http://www.filtech.com) for a complete listing of our nude gauges and replacement filaments.

AGILENT • AMAT • MKS

### Bayard Alpert Gauges/Pin Guards

Flange 2 3/4" • Header Ceramic to Metal Seal • Degas E-Beam Only

MKS		AMAT	DESCRIPTION	Fil-Tech	
274128	\$640		Iridium Single	GB20IR	\$490
274103	730	3310-01081	Iridium Single With Pin Guard	GB43IR	665

### UHV Gauges/Pin Guards

Flange 2 3/4" • Header Ceramic to Metal Seal • Degas E-Beam Only

MKS		DESCRIPTION	Fil-Tech	
274022	\$640	Tungsten Dual	GU21T	\$490
274123	760	Iridium Dual	GU21IR	550
274050	653	Tungsten Dual, NW40KF	GU50T	590
274041	725	Tungsten Dual With Pin Guard	GU41T	650
274142	730	Iridium Dual With Pin Guard	GU42IR	650

### AGILENT

X3004-64401	750	Iridium Dual	GU24IR	675
9715008	707	Tungsten Dual	GU24T	625

### Replacement Filaments

AGILENT		DESCRIPTION	Fil-Tech	
9710018	\$131	Tungsten Dual	GF18	\$52
X3004-64403	249	Iridium Dual	GF28	106

### MKS

274024	220	Tungsten Dual	GF24	80
274125	260	Tungsten Dual	GF25	106
274129	225	Iridium Single	GF29	106

One filament per box

## CALIBRATED HELIUM LEAKS

	NEW	Fil-Tech	RECALIBRATION
CL7	10-7ccHe/sec	\$800	Certification \$450
CL8	10-8ccHe/sec	850	NIST Traceable Certification

## Fil-Tech Fluid vs Torrlube

Fil-Tech Fluid dramatically increases bearing life in vacuum and semiconductor processes by reducing friction. It has exceptional lubricating properties for sliding and rotating applications to 10<sup>-8</sup> torr. Fil-Tech Fluid functions in a wide temperature range (-20°C to 260°C) and is chemically inert in the presence of most semiconductor gases such as fluorine at 200°C and trifluoride at 50°C.



ITEM	SIZE	TORRLUBE®	Fil-Tech FLUID™
FTF001	1 cc Syringe	\$112	\$90
FTF003	3 cc Syringe	247	250
FTF100	2-50 cc Bottles	1,280	1,000

## Diffusion Pump Silicones

All Fil-Tech's fluids are the functional equivalent to Dow Corning's DC702, DC704, and DC705, respectively. They can be mixed and/or reprocessed together in any portion with their respective counterpart. Fil-Tech sells silicones!

**FIL-TECH FT702, FT704 AND FT705 SILICONES REPLACE THE NO-LONGER-AVAILABLE DOW CORNING DC702, DC704 AND DC705 SILICONES**

### FT702 Phenylmethylsiloxane

is an economical general purpose silicone fluid for pumping large gas loads with thermal stability and oxidation resistance. Vacuum 10<sup>-5</sup> to 10<sup>-7</sup> torr.

### FT704 Tetramethyltetraphenyltrisiloxane

is a single component fluid extensively used for applicators requiring rapid pump down of large gas loads. For performance and economics, your best choice. Vacuum 10<sup>-5</sup> to 10<sup>-8</sup> torr.

### FT705 Pentaphenyltrimethyltrisiloxane

is a single component fluid for ultra high and ultra clean vacuums. For lowest ultimate pressure, your best choice. Higher resistance to crystallization. Vacuum 10<sup>-5</sup> to 10<sup>-10</sup> torr.

## Fil-Tech

	FT702	NEW	REPROCESSING
1 Gallon	\$440		\$215
5 Gallon	2,000		
<b>FT704</b>			
500 cc	\$90		
1 Gallon	550		215
5 Gallon	2,500		
<b>FT705</b>			
500 cc	\$140		
1 Gallon	800		230
5 Gallon	3,800		



Call Fil-Tech at 800-743-1743 for a free DOT approved pail to collect your used fluid for remanufacture.

- TRADEMARKS**  
Fil-Tech®
- OTHER TRADEMARK OWNERS**
- Agilent® Agilent Technologies, Inc.
  - Alcatel® Alcatel Vacuum Technology
  - AMAT® Applied Materials, Inc.
  - Axcelis® Axcelis Technologies, Inc.
  - Chemours® The Chemours Company
  - Convectron® MKS Instruments
  - Dow Corning® Dow Corning Corp.
  - CTI/Brooks® Brooks Automation, Inc.
  - Frontier Vacuum® Frontier Vacuum
  - High Performance® Ferrotec Corp.
  - INFICON®
  - INFINON®
  - Advanced Adhesion Alloy®
  - Longer Life Gold®
  - Quality Crystals®
  - Stress Relieving Alloy®
  - InstruTech® InstruTech
  - Intellectrics® Intellevation Ltd.
  - Ion Tech® Veeco Instruments, Inc.
  - Kaufman & Robinson® Kaufman & Robinson
  - Krytox® The Chemours Company FC, LLC
  - Lam® Lam Research Corporation
  - Leybold® Oerlikon Leybold Vacuum
  - Maxtek® INFICON
  - MKS® MKS Instruments
  - Novellus® Novellus Systems, Inc.
  - QCM-I® Semilab Inc.
  - Q-Sense® Biolin Scientific Holding, AB
  - Santovac® Arch Technology Holding, LLC
  - Satisloh® Satisloh GmbH
  - Sloan® Veeco Instruments, Inc.
  - SuperSource® Ferrotec Corp.
  - Telemark® Telemark
  - Temescal® Ferrotec Corp.
  - Thermionics® TLI Enterprises, Inc.
  - TorrLube® The Torr Lube Company, LLC
  - ULVAC® ULVAC Technologies, Inc.
  - Umicore® Umicore
  - Unaxis® OC Oerlikon Corp., AG
  - Veeco® Veeco Instruments, Inc.
  - Windows® Microsoft, Inc.

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## SANTOVAC 5 Polyphenyl Ether Diffusion Pump Fluid

SANTOVAC® 5 will provide vacuums in the 10<sup>-10</sup> torr range with exceptionally low vapor pressure and backstreaming. It is excellent for applications that must be free of silicones or those requiring ultra high, clean vacuums.

SANT5-006	65 cc	\$245
SANT5-01	100 cc	335
SANT5-05	500 cc	1,295
SANT5-1	1 Gallon	7,700

# MECHANICAL PUMP FLUIDS & VACUUM VALVES

## FT19

Molecularly distilled hydrocarbon fluid for non-corrosive applications. FT19 works well for all mechanical pumps.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	1 x 10-5 torr	1 Gallon	\$45
Viscosity @ 40°C	54 cst (251 SUS)	5 Gallon	140
Viscosity @100°C	8 cst (52.7 SUS)	55 Gallon	1,250

## FT20

Doubly distilled hydrocarbon fluid for corrosive or reactive applications. Ideal for direct drive and belt driven mechanical pumps and also suitable for diffusion pump applications.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	1 x 10-6 torr	1 Gallon	\$75
Viscosity @ 40°C	58 cst (269 SUS)	5 Gallon	290
Viscosity @100°C	8.5 cst (54.1 SUS)	55 Gallon	2,150

## FT70

High grade oil with temperature resistance and wear protection with extreme load-carrying capability. FT70 is safe for yellow metals in single stage pumps that run hot.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	1 x 10-4 torr	1 Gallon	\$65
Viscosity @ 40°C	75 cst (350 SUS)	5 Gallon	225
Viscosity @100°C	9.4 cst (58 SUS)	55 Gallon	1,550

## FT77

Molecularly distilled hydrocarbon fluid for rotary piston pump in non-corrosive applications. It has the high viscosity required for the proper lubrication of piston pumps.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	1 x 10-4 torr	1 Gallon	\$50
Viscosity @ 40°C	90 cst (418 SUS)	5 Gallon	175
Viscosity @100°C	10 cst (58.8 SUS)	55 Gallon	1,300

## FT87

Molecularly distilled hydrocarbon for large rotary piston pumps and roots blowers in non-corrosive applications requiring higher viscosity fluids.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	4 x 10-4 torr	1 Gallon	\$60
Viscosity @ 40°C	100 cst (600 SUS)	5 Gallon	200
Viscosity @100°C	14 cst (64 SUS)	55 Gallon	1,400

## FT97

Molecularly distilled hydrocarbon for large rotary piston pumps and roots blowers in non-corrosive applications requiring highest viscosity fluids.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	4 x 10-4 torr	1 Gallon	\$65
Viscosity @ 40°C	205 cst (950 SUS)	5 Gallon	225
Viscosity @100°C	18 cst (85 SUS)	55 Gallon	1,550

## FTTW

### TECHNICAL WHITE

Molecularly distilled hydrocarbon fluid containing no additives. Specifically recommended for mechanical pumps exposed to reactive or corrosive gases. FTTW is the longest lasting hydrocarbon fluid.

SPECIFICATIONS		SIZES	PRICE
Vapor Pressure @ 25°C	<1 x 10-6 torr	1 Gallon	\$70
Viscosity @ 40°C	56 cst (260 SUS)	5 Gallon	290
Viscosity @100°C	9 cst (55.4 SUS)	55 Gallon	2,500



## Frontier Vacuum

Fil-Tech distributes Frontier Vacuum Angle, Gate and Ball Valves. Frontier Vacuum offers 25 years of excellent quality valves at competitive prices to the semiconductor, solar, and thin film industries.



### Vacuum Angle Valves

Frontier manual and pneumatic vacuum angle valves are designed for general use in vacuum systems, processes, and exhaust applications. They are particularly well suited for vacuum isolation or control under rigorous installation conditions. The angle valves are equipped with vacuum bellows and are highly effective in high vacuum environments. Frontier manual and pneumatic angle valves operate in a pressure range of 1x10<sup>-6</sup> Pa to 1.2x10<sup>(5)</sup> Pa and are offered with DN25, DN40, DN63, DN80, and DN100 flanges.

### Vacuum Gate Valves

Frontier vacuum gate valves offer a thin profile and low flow resistance. They transport gases and solids and can seal against atmospheric pressure. The valve plate moves within the body cavity without contacting the walls. When opening or closing, the valve plate expands or contracts linearly upon reaching the sealing surface and avoids friction on the O-ring seal on the valve plate. Frontier Vacuum gate valves are offered in manual or pneumatic, stainless steel and aluminum, have a leak rate of 1.3x10<sup>-10</sup> PaM<sup>3</sup>/S, and are available with DN40-1320 flanges.

### Vacuum Ball Valves

Frontier manual ball valves are used to start and cut off fluid flow in vacuum systems and can be used in gas and liquid pipeline systems under positive and negative pressure ranging from 1x10<sup>-6</sup> Pa to 1.2x10<sup>(5)</sup> Pa. Frontier pneumatic 2-way and 3-way ball valves can withstand positive pressure to meet the requirements for ultra-high vacuum and accelerator systems and are used in vacuum systems ranging from 1x10<sup>-6</sup> Pa to 4x10<sup>(5)</sup> Pa. Manual and pneumatic ball valves are offered with DN16, DN25, DN40, DN50, DN63, DN80, DN100, DN160 and DN200 flanges.

# KRYTOX VACUUM PUMP FLUIDS

## Krytox® Fluid

Chemours Krytox fluids are totally perfluorinated polyether fluids (PFPE) that are suitable for the harsh environments associated with semiconductor processes. The fluids are chemically inert, thermally stable, oxygen resistant and nonflammable. Available with controlled low vapor pressures and viscosities. Applications include plasma etching, LPCVP and 100% oxygen service.

## Remanufacturing Service

Fil-Tech's remanufacturing service restores your contaminated KRYTOX or other PFPE fluids to their original properties at high recovery yields. The cost is a fraction of the price of new fluid. Call for pricing.



Authorized Distributor of Krytox™, a Brand of The Chemours Company

1506	\$370/kg
1514	370/kg
1525	370/kg
1514XP	400/kg
1525XP	400/kg
XP Rust preventative fluid	
PFPE SOLVENT	
KXSOLV-1	\$600/gallon

Contact us for quantity discounts.

Call Fil-Tech for a free DOT approved pail to collect your used fluid for remanufacture. 800-743-1743

SHOP ONLINE NOW!

# KRYTOX VACUUM GREASES

Chemours has a series of Krytox (PFPE) vacuum greases suitable for various applications. Your viscosity, temperature and vapor pressure requirements will determine your choice of grease. All Krytox greases are inert and suitable for applications requiring high temperature stability and low vapor pressure. They show excellent resistance to the aggressive environments inherent in the semiconductor industry. Krytox greases are oxygen compatible and hydrocarbon free.

SPECIFICATIONS		2 oz	8 oz	Kg	TEMPERATURE RANGE	VISCOSITY AT 40°C	VAPOR PRESSURE AT 40°C
Electronic Grade EG Greases	EG2000	\$136	\$500	\$2,350	-34°/288°C	240 cSt	2 x 10-8 torr
	EG3000	136	500	2,350	-29°/316°C	440 cSt	6 x 10-9 torr
Aerospace 240 Greases (milspec)	240AB	275	960	3,435	-40°/232°C	78 cSt	5 x 10-6 torr
	240AC	275	960	3,435	-34°/288°C	270 cSt	8 x 10-8 torr
	240AD	275	960	3,435	-29°/316°C	500 cSt	6 x 10-9 torr
Low Vapor Pressure Grease	LVP	136	500	1,975	15°/300°C	740 cSt	1 x 10-13 torr
General Purpose Greases	GPL202	62	198	680	-63°/132°C	15 cSt	Standard Grade
	GPL203	60	190	655	-60°/154°C	30 cSt	Standard Grade
	GPL205	60	190	655	-36°/204°C	160 cSt	Standard Grade
	GPL206	60	190	655	-36°/260°C	243 cSt	Standard Grade
	GPL207	60	190	655	-30°/288°C	450 cSt	Standard Grade
	GPL224	60	190	655	-51°/179°C	60 cSt	Anti Corrosion
	GPL226	60	190	655	-36°/260°C	160 cSt	Anti Corrosion
GPL227	60	190	655	-30°/288°C	440 cSt	Anti Corrosion	

# KRYTOX GENERAL PURPOSE OILS

Krytox GPL oils are clear, colorless, fluorinated synthetic oils that are non reactive, nonflammable, safe in chemical and oxygen service, and long-lasting.

	Kg	TEMPERATURE RANGE	VISCOSITY AT 40°C
GPL101	\$660	-70°/104°C	7.8 cSt
GPL102	660	-63°/132°C	15 cSt
GPL103	636	-60°/154°C	30 cSt
GPL104	636	-51°/179°C	60 cSt
GPL105	636	-36°/204°C	160 cSt
GPL106	636	-36°/260°C	243 cSt
GPL107	636	-30°/288°C	450 cSt

# Fil-Tech

6 PINCKNEY STREET, BOSTON, MA 02114

## Quality & Savings From Stock®



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