



FLUORO RESIN LINING TANK  
ELECTRO POLISHING TANK  
TANK ACCESSORY PARTS  
FLUORO RESIN PARTS

# FLUORO TECH CATALOGUE

**THE BEST**

Everyone in the world is in pursuit of alues  
beyond chemical safety to realize safety, relief and trust.



**FLUORO TECH CO., LTD**

**THE BEST**

Everyone in the world is in pursuit of values beyond chemical safety to realize safety, relief and trust.

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# About Company



## GUMI

FLUORO TECH CO., LTD  
 1st place of business (head office and factory)  
 2nd place of business (factory)

## HWASEONG

FLUORO TECH CO., LTD  
 Hwaseong Branch (Sales Office)

## CHANGZHOU

CHANGZHOU FLUORO TECH CO.,LTD  
 Overseas legal corporation  
 (Changzhou, Jiangsu, China)

<b>Location</b>	domestic	Overseas (China)
<b>Company Name</b>	FLUORO TECH CO., LTD.	CHANGZHOU FLUORO TECH CO.,LTD.
<b>CEO</b>	JANG, Moon-Soo BAE, Jong-Wook	LEE Gyoung-Yul
<b>Date of establishment</b>	August 20, 1995	September 3, 2013
<b>Business area</b>	Semiconductor, display, chemical plant, pharmaceutical/BIO plant, nuclear power, renewable energy industry	Semiconductor, display, chemical plant, pharmaceutical/BIO plant, new and renewable energy industry
<b>Contact information</b>	TEL. +82-54-473-4657 FAX. +82-54-475-4659	TEL. +86-519-6888-5156 FAX. +86-519-6888-5296
<b>E-Mmail</b>	fluoro@fluorotech.co.kr	changzhou@fluorotech.co.kr
<b>Factory scale</b>	Gumi Plant 1 : Land 5,200㎡ / Building 3,100㎡ -Clean room (height) 5M x 100 pyeong -D.I.Water System 18MΩcm×3m3/HR production -Hot D.I.W System and Clean air system, etc. Gumi Plant 2 : Land 6,000㎡ / Building 3,300㎡	China-1 Factory: 2,100㎡, clean room 300㎡ China-2 Factory: 3,300㎡, clean room 800㎡ (10,000 level clean room 300㎡)
<b>Address</b>	[Headquarters and Factory] Gumi 1st business site: # 51, Cheomdangeop 2-ro, Sandong-eup, Gumi-City, Gyeongsangbuk-do, Korea Gumi 2nd Plant: # 209, Cheomdangeop-ro, Sandong-eup, Gumi-si, Gyeongsangbuk-do, Korea [Business office] Hwaseong Branch: #1005, #1008, #1009, 683, Dongtan-daero, Hwaseong-si, Gyeonggi-do (Yeongcheon-dong, SH Square 2)	No.66 Yanyang Road, Tongjiang Industrial Park, Xiaohu, Menghe Town, Xinbei District, Changzhou City, Jiangsu Province
<b>Production CAPACITY</b>	Gumi 1st Plant (LINING TANK) - 60 units per month based on 1m <sup>3</sup> Gumi 2nd Plant (E.P TANK) - 60 units per month based on 1m <sup>3</sup> Maximum production capacity in SHOP: 100m <sup>3</sup>	1st Factory in China - 40 units per month based on 1m <sup>3</sup> 2nd factory in China - 50 units per month based on 1m <sup>3</sup>



# About Company

Everyone in the world is in pursuit of alues  
beyond chemical safety to realize  
**safety, relief and trust.**

We will make the world more convenient and enrich the lives of all of us by creating new values  
with **safety** for industrial sites, **relief** for members of society, and **trust** for customers.



### Basics and Principles

We strictly follow laws and social norms, and do not compromise on matters that do not conform to common sense and ethics.



### Client-centric thinking

Accurately recognizing the level of customer needs inside or outside the company  
Impress customers by promptly providing information or services



### Passion and challenge

we are not afraid of change and engage in innovation activities to create organizational results based on a strong desire to achieve higher goals and a spirit of challenge

## "THE BEST"

A small but strong company that creates new values



### BEST Company

As a corporate citizen, we contribute to the common prosperity of the local community, nation, and humanity



### BEST Quality

We impress customers with the spirit of unlimited responsibility



### BEST Value

We solidify our position as a first-class company that leads the market



### BEST Pride

Enrich the lives of all mankind with the values we create

Basics and Principles

Customer-centered Thinking

Passion and Challenge

Harmonious person

Creative person

Challenging person

Professional person

# History

	<b>2021</b>	<ul style="list-style-type: none"> <li>..... The 48th 'Day of Commerce and Industry' Stone Tower Order of Industrial Service Merit</li> <li>..... Acquisition of construction license for mechanical equipment construction business</li> <li>..... Lab establishment certification</li> </ul>
<ul style="list-style-type: none"> <li>..... Sales office (Hwaseong branch) opened</li> <li>..... Established and moved the laboratory to Hwaseong, Gyeonggi-do</li> </ul>	<b>2020</b>	<ul style="list-style-type: none"> <li>..... Completion of the 2nd Gumi Plant</li> <li>..... Acquired permission for hazardous chemical business (use business)</li> </ul>
	<b>2019</b>	<ul style="list-style-type: none"> <li>..... Designated as a promising export small and medium enterprise ,Ministry of SMEs and Startups</li> <li>..... ISO 45001:2018 certified</li> <li>..... Chemical safety community business agreement (Daegu Regional Environment Agency, Gumi Chemical Safety Joint Disaster Prevention Center)</li> </ul>
<ul style="list-style-type: none"> <li>..... Selected as a KICOX Global Leading Company , Korea Industrial Complex Corporation</li> <li>..... Selected as a technology innovative SME, Ministry of SMEs and Startups</li> </ul>	<b>2018</b>	
	<b>2017</b>	<ul style="list-style-type: none"> <li>..... Award of the 54th Trade Day 'Tower of Million Dollar Exports' Company of the Month Selection, Gumi city</li> </ul>
<ul style="list-style-type: none"> <li>..... Selection of Export Promising SMEs (by SMBA, Daegu Gyeongsangbuk-do)</li> <li>..... Daegu Gyeongsangbuk-do</li> <li>..... Small and Medium Business Commissioner Promising Small and Medium Business Selection Commendation</li> </ul>	<b>2016</b>	<ul style="list-style-type: none"> <li>..... Designation of Compliant Trade Traders ,Ministry of Industry, Trade and Resources</li> <li>..... Small Hidden Champion Certification, Ministry of Employment and Labor</li> </ul>
<ul style="list-style-type: none"> <li>..... New Technology Certification by Ministry of Industry, Trade and Resources (LEAK SENSOR Production Technology)</li> <li>..... Industry-academia cooperation technology development support project participation (convergence of technologies based on astronomical measurement data)</li> </ul>	<b>2015</b>	<ul style="list-style-type: none"> <li>..... GERMAN TUV SUB FTSA GASKET Product Certification</li> <li>..... LEAK SENSOR product certification (explosion-proof certification, UL certification, CE certification, China explosion-proof)</li> <li>..... FTSA GASKET Design Registration and Trademark Application</li> </ul>
	<b>2014</b>	
	<b>2013</b>	<ul style="list-style-type: none"> <li>..... Establishment of China Trauma Independent Enterprise</li> <li>..... ISO 14001:2015 Certified</li> </ul>
<ul style="list-style-type: none"> <li>..... Certification of Component Materials Professional Company, (Ministry of Knowledge Economy)</li> </ul>	<b>2012</b>	
	<b>2011</b>	<ul style="list-style-type: none"> <li>..... Gyeongsangbuk-do Selected as a 'New Growth Company'</li> </ul>
<ul style="list-style-type: none"> <li>..... Establishment of a company-affiliated research institute (Gumi)</li> <li>..... Renewable Energy Professional Company Certification (Ministry of Knowledge Economy)</li> </ul>	<b>2010</b>	
	<b>2006</b>	<ul style="list-style-type: none"> <li>..... Inno-Biz Technology Innovative Small Business Certification (Small and Medium Business Administration)</li> </ul>
<ul style="list-style-type: none"> <li>..... China Export Quality Certification (CSEL) License Acquisition</li> </ul>	<b>2005</b>	
	<b>2004</b>	<ul style="list-style-type: none"> <li>..... Headquarters relocation</li> <li>..... #51 Cheomdangeop 2-ro, Sandon-eup, Fumi-city, Gyeongbuk, Korea</li> </ul>
	<b>2002</b>	<ul style="list-style-type: none"> <li>..... ISO 9001:2000 Certified</li> </ul>
	<b>2001</b>	<ul style="list-style-type: none"> <li>..... Japan 'SAKAI STAINLESS 株式会社' E.P Technology Partnership</li> <li>..... E.P Localization Development and Mass Production Supply</li> </ul>
<ul style="list-style-type: none"> <li>..... LINING TANK mass production supply commencement</li> <li>..... Startup and business open</li> </ul>	<b>1995</b>	

# Business Performance

We will make our best efforts to grow and develop into a small but strong company with the world's best technical manpower and high competitiveness so that we can play a role in the domestic and global markets.

## END USER



## ENGINEERING COMPANIES



## CHEMICAL TANK PERFORMANCE

Main Customers	Site & Project		Capability	Quantity	
				LINING	E.P
Samsung	Semi- Conductor	Giheung: 14Line,15Line,G,G1-PJT,S1A,S1B,SF1-PJT,SR1L,K2 Hwaseong: NRD,10Line,11Line,12Line,13Line,16Line,16-2Line,17Line Pyeongtaek: P-PJT, P1L V7, P2-PJT, P3-PJT Cheonan: L5-PJT	0.1M <sup>3</sup> ~ 20M <sup>3</sup>	2,122	659
	Display	Cheonan: SDI-PDP Line, C5, C6 Asan: T7-1, T7-2, T8, T8-2	0.2M <sup>3</sup> ~ 35M <sup>3</sup>	549	436
	Electronics	Cheonan: S-PJT	0.035M <sup>3</sup> -15M <sup>3</sup>	58	7
L G	Display	Gumi: P1, P2, P3, P4, P5, P6, P6E, AP2, AP3-PJT Paju: P7, P8, P8E, P98-PJT, P10B PJT	0.2M <sup>3</sup> ~80M <sup>3</sup>	790	438
	Electronics	Gumi: LGE Solar PJT	0.1M <sup>3</sup> ~80M <sup>3</sup>	14	4
SK Hynix	Semi- Conductor	Gumi(Magna Chip): G1 section, MOS section FAB CCSS Icheon: M-Line, FAB7, M10A, M10B, M10C, M14, M14 PH2, M14 PH2B, M16 PJT Cheongju: M8,9, M11, M12 PJT, M15 PJT	0.1M <sup>3</sup> ~20M <sup>3</sup>	1,506	280
Doosan Heavy Industries & Construction	Nuclear Energy	US AP1000/ Ulljin1,2 / Shin-Kori #3,4,5,6 / Sinwolsong #2 / China AP1000 / Palo #1,2,3 / Sequoyah#2/Hanbit #3,4,5,6 / Watts Bar etc.	Steam Generator HEAD		29
Others	Chemical / Etc.	Dongseo Petrochemical, Samsung SDI (Cheil Textile Industries), Hanwha, Samyoung Soonhwa, LS Nikko Copper Smelting, Samsung Corning, Dongbu Hitech, Fairchild, Hansol Chemical, Techno Semichem, Hyosung, SK Siltron, Kolon Petrochemical, Dongwoo Fine Cam, ENF Technology, Ram Technology, KC Tech, Seoul Semiconductor, AMKOR, SB TECH, Chemitop, SKC, etc.	0.01M <sup>3</sup> ~200M <sup>3</sup>	1,306	329
Overseas	China	Beijing: BOE B1, B4, GVO Wuxi: SK HYNIX Dalian: INTEL Hebei: BOE B3, B9 Qingdao: BOE B2 Shenzhen: CSOT Xian : Samsung M, X2 Ordos : BOE B6 Fuzhou: BOE B10 Chongqing : BOE B8 Chengdu: BOE B7 Wuhan : YMTC Shanghai: SMIC, TIANMA Mianyang: BOE B11 Guangzhou: LGD CA, GP2, P10A	0.2M <sup>3</sup> ~50M <sup>3</sup>	1,666	421
	Taiwan	CPT-PJT, PROMOS PJT	1.0M <sup>3</sup> ~35M <sup>3</sup>	56	19
	Vietnam	SEV, SEVT, SEVT(Metal) PJT	1.0M <sup>3</sup> ~25M <sup>3</sup>	46	
	USA	AUSTIN SAS A2, AUSTIN SAS CU, SAS FAB	0.05M <sup>3</sup> ~65M <sup>3</sup>	286	30
	Singapore	MICRON F10A, F23C, F25C, F10A PH2 PJT	0.075M <sup>3</sup> ~20M <sup>3</sup>	117	2
<b>TOTAL</b>				<b>8,518</b>	<b>2,654</b>

The above supply performance is based on delivery completion on December 31, 2021.



# Product Introduction

We will grow and develop into a small but strong company with the world's best technical manpower and high competitiveness so that we can play a role in the domestic and global markets.



**01**

## LINING TANK

- Lining Tank
- Tank Lorry
- Pipe & Fitting
- Drum & Container



**02**

## E.P TANK

- E.P Tank
- Tank Lorry
- Pipe & Fitting
- Drum & Container



**03**

## ACCESSORY PARTS

- Pipe & Fitting
- Safety Valve
- Vacuum Breaker



**04**

## FLUORORESIN PARTS

- Molding Bath
- FTSA Gasket
- Ohter Parts



# Chemical Tank

FLUORO THECH CO., LTD. is a specialized company that manufactures chemical tanks in the semiconductor and display fields. Based on skilled experience and high technology, We have accumulated experience in the necessary specialized fields, and have been manufacturing and supplying TANK and VESSEL of various shapes and specifications created with high technology and know-how. We promise that We will do our best to produce safe and high quality products.

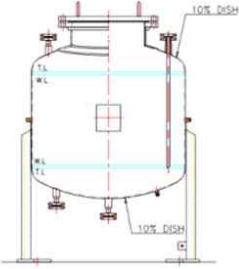
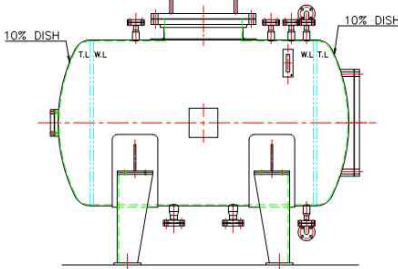
## TANK SIZE table

The SIZE table is not a standardized table, and it can be manufactured in accordance with the customer's specifications and conditions.

Capacity(m <sup>3</sup> )	SIZE
0.5	ID 750×1,200H (TL~TL)
1	ID 1,050×1,200H (TL~TL)
1.5	ID 1,200×1,500H (TL~TL)
2	ID 1300×1,500H (TL~TL)
5	ID 1,800×2,000H (TL~TL)
10	ID 2,100×2,900H (TL~TL)
15	ID 2,400×3,300H (TL~TL)
20~100	Please consult with us for material, size, and other matters on production.

## Characteristics of each type of TANK

The shape of the tank is changed in accordance with various conditions such as the purpose of use and the presence or absence of pressure resistance.

VERTICAL TYPE	HORIZONTAL TYPE
 <p><b>End plate shape :</b> 10% DISH.</p> <p><b>Capacity :</b> 0.5m<sup>3</sup>~50m<sup>3</sup> or less can be manufactured (more than 50m<sup>3</sup> requires additional agreement)</p> <p><b>Advantages</b></p> <ul style="list-style-type: none"> <li>- This is the popular model. both pressure and non-pressure are used (there may be partial changes depending on the operating pressure)</li> <li>- Can be used for external storage or tank with large capacity</li> </ul> <p><b>Disadvantage</b></p> <ul style="list-style-type: none"> <li>- It is difficult to work if the inner diameter is less than 1050mm owing to the interference between MANHOLE and NOZZLE</li> </ul>	 <p><b>End plate shape :</b> 10% DISH.</p> <p><b>Capacity :</b> 1m<sup>3</sup>~30m<sup>3</sup> or less can be produced (more than 30m<sup>3</sup> requires additional mutual agreement)</p> <p><b>Advantages</b></p> <ul style="list-style-type: none"> <li>- Use both pressure and non-pressure</li> <li>- It is mainly used for external storage or tanks with large capacity, and is mainly used where there is a height limit.</li> <li>- Stronger in earthquake and wind resistance than VERTICAL TYPE</li> </ul> <p><b>Disadvantage</b></p> <ul style="list-style-type: none"> <li>- In case of E.P TANK, separate NOZZLE must be manufactured on the left and right end plates (used for E.P work)</li> <li>- Compared to the VERTICAL TYPE, the production period and cost are higher. There is some difficulty in lining or E.P work.</li> </ul>

## I Types of CHEMICAL TANK

### SUPPLY TANK

The tank that supplies chemicals to mass production facilities at a constant pressure and flow rate



### MIXING TANK

The tank that mixes each chemical supplied to the facility with a stirrer



### STORAGE & WASTE TANK

The tank that stores chemicals in large capacity or for disposal of used chemicals



### TANKLORRY / ISO CONTAINER

The TANK used to transport chemicals





## I Other special purpose CHEMICAL TANK

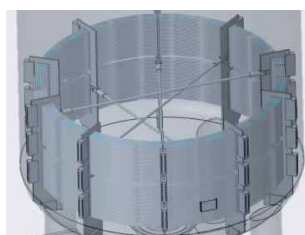
### PHARMACEUTICALS·BIO EQUIPMENT

FLUORO TECH CO., LTD. receives and supplies technology alliance with Sakai Stainless of Japan for clean facilities, which are the most basic in BIO facilities. Incubator provides the best system by realizing optimal management conditions such as temperature, pressure, and mixing amount of various bacteria desired by customers in the culture process that artificially creates microorganisms. In addition, it is possible to manufacture CIP and SIP process-compatible equipment which are the most basic of bio processes and the mixing and general processes of the cleaning liquid are fully automated, which makes the work easier and is designed to reduce labor costs.



### PFA HEAT EXCHANGER

A device designed to exchange heat between two or more fluids is called a heat exchanger. Heat exchangers are used to exchange heat between different fluids for the purpose of cooling the fluid or heating the fluid to increase its temperature. Fluorotech's fluororesin heat exchanger is a product that utilizes the characteristics of fluororesin such as corrosion resistance, stain resistance, heat resistance, pressure resistance, and stability of mechanical strength. There are FREE TYPE, SPIRAL TYPE and MODULE TYPE.



### JACKET HEATER TANK

The thermal insulation method that has been used so far has mainly been used to cover the tank and piping with insulation material and then finish it with tin or PE tape on it. In order to solve this inconvenience, it is an economical resource-saving heater that can be attached and detached several times during maintenance, remodeling, and repair of semiconductor equipment as a product that integrates heating wire and insulation material that can compensate for heat loss. In particular, frequent repairs are required. It is an innovative heating system that is optimal for heating equipment that can prevent the temperature drop of valves and equipment, and can significantly extend the period of regular equipment maintenance.

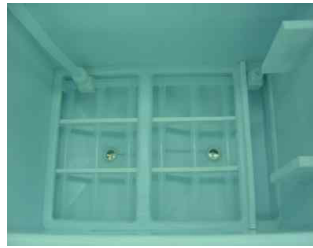




# Fluororesin Lining

It means bonding and vacuum adsorption inside the housing by using fluororesin (PTFE, PFA, APV, PP, PVDF, FEP, ECTFE) sheet.

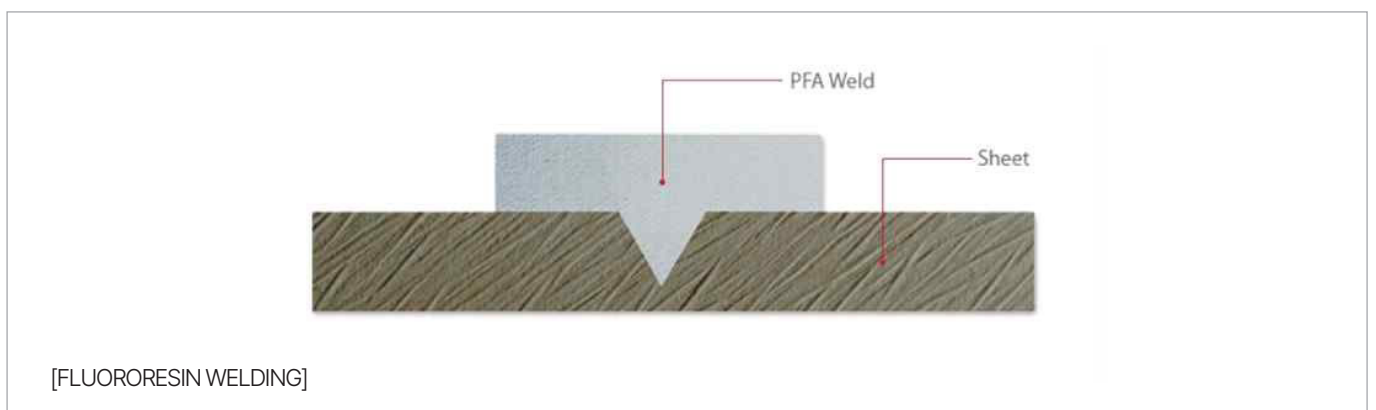
It is widely used in the semiconductor, display, and chemical plant industries as highly clean chemical containers and piping owing to the excellent chemical resistance, heat resistance, non-adhesiveness, and non-dissolving properties of fluororesin



## LINING SHEET TYPE

<b>PTFE SHEET</b>	<ul style="list-style-type: none"> <li>▪ PTFE ETCHING SHEET</li> <li>▪ PTFE GLASS BACKING SHEET</li> </ul>
<b>NEW PTFE SHEET</b>	<ul style="list-style-type: none"> <li>▪ APV GLASS BACKING SHEET</li> <li>▪ TFM GLASS BACKING SHEET</li> <li>▪ PLP ETCHING SHEET</li> </ul>
<b>PFA SHEET</b>	<ul style="list-style-type: none"> <li>▪ PFA GLASS BACKING SHEET</li> </ul>

## LINING SHEET WELDED SECTION SECTION



## ■ LINING PRODUCT

• LINING TANK

• LINING TANK LORRY

• LINING DRUM & CONTAINER

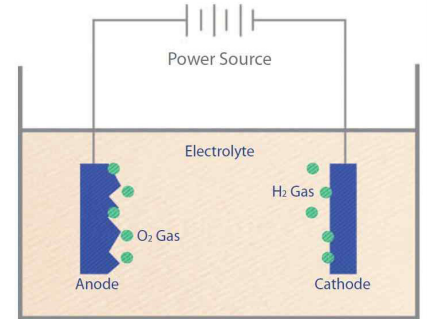
• LINING PIPE & FITTING

Please consult with us for material, size, and other matters.



# Electro Polishing

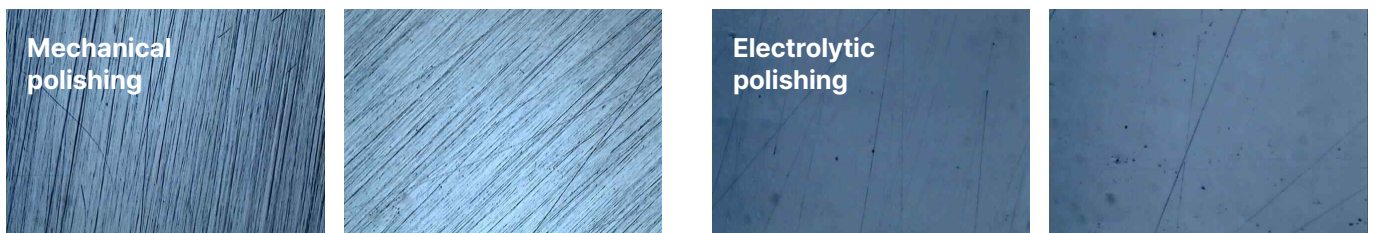
Electro Polishing of FLUORO TECH CO., LTD. is based on specialized technology and implements design and construction suitable for the customer's environment in all industries that require ultra-precision, such as semiconductors, displays, biopharmaceuticals, and nuclear power. Mobile electropolishing equipment is built so that the electrolytic polishing can be performed smoothly even if the product is moved locally without being restricted by the product's bulkiness, shape, and characteristics. Electropolishing is possible regardless of the environment. Electrolytic polishing has excellent performance in polishing the inner surface of pipes and tanks in contact with high-purity solutions of semiconductor manufacturing equipment.



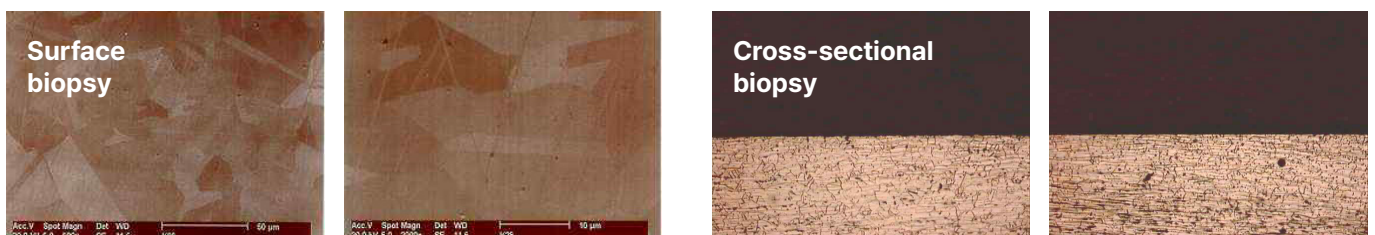
## Comparison of grinding techniques

Shape characteristics \ Grinding	Precipitation electropolishing [E.P]	Chemical polishing [C.P]	Machine grinding [Buffing]
<b>Smoothness</b>	◎	△	○
<b>Polished surface</b>	(Seconds) mirror surface	No gloss	Polish
<b>Effective area</b>	Minimal (micro improvement)	Large	Large
<b>non-adhesive</b>	◎	x	△
<b>greenness</b>	◎	x	△
<b>processing bending</b>	doesn't exist	doesn't exist	has exist
<b>corrosion resistance</b>	○	△	x

### <Surface of 316L stainless steel (optical microscope 400 times magnification)>



### <Electropolishing Scanning Electron Microscopy (SEM) Microscopic Examination>



No surface defects such as grain boundary erosion were observed as a result of the SEM inspection. It can be seen that the electropolished surface is uniform.



## ELECTRO POLISHING PRODUCT

- E.P TANK

- E.P TANK LORRY

- E.P PIPE & FITTING

- E.P DRUM & CONTAINER

- E.P PHARMACEUTICALS·BIO

- E.P FILTER HOUSING

Please consult with us for material, size, and other matters.





# Accessory Parts


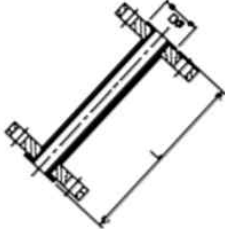
We manufacture and sell both lining using PTFE and PFA and electropolishing (E.P) or BA Grade FITTINGS.


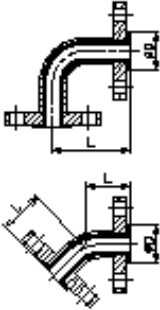
As a corrosion-resistant piping material suitable for chemical transport, it is applied to various fittings, straight pipes, and inserted pipes, and the dimensions are applicable to KS, JIS, ANSI, DIN standards, etc.

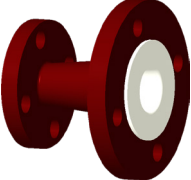
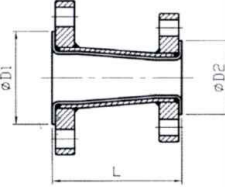


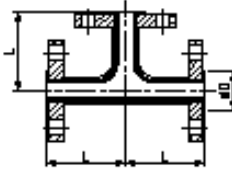
## LINING & E.P FITTINGS


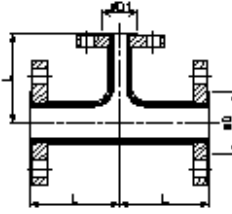
Please inquire separately for other non-standard productions.


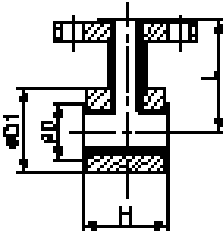
PIPE	NOMINAL SIZE		D(mm)	L(mm)		LINERS AVAILABLE		DIMENSION
	ANSI	JIS		Min	Max	PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	3/4"	20A	40	80	3000	★	★	
	1	25A	48	80	3000	★	★	
	1 1/2	40A	69	90	3000	★	★	
	2	50A	88	90	3000	★	★	
	2 1/2	65A	113	90	3000	★	★	
	3	80A	118	100	3000	★	★	
	4	100A	151	100	3000	★	★	
	6	150A	204	120	3000	★	★	
	8	200A	256	120	3000	★	★	
	10	250A	312	150	3000	★	★	
	12	300	366	150	3000	★	★	


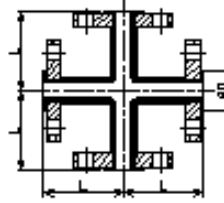
ELBOW	NOMINAL SIZE		D(mm)	L(mm)		LINERS AVAILABLE		DIMENSION
	ANSI	JIS		90° Elbow	45° Elbow	PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	3/4"	20A	40	80	45	★	★	
	1	25A	48	89	45	★	★	
	1 1/2	40A	69	102	58	★	★	
	2	50A	88	114	64	★	★	
	2 1/2	65A	113	127	76	★	★	
	3	80A	118	140	76	★	★	
	4	100A	151	165	102	★	★	
	6	150A	204	203	127	★	★	
	8	200A	256	229	140	★	★	
	10	250A	312	279	165	★	★	
	12	300A	366	305	191	★	★	

REDUCER	NOMINAL SIZE		D(mm)	D1(mm)	D2(mm)	LINERS AVAILABLE		DIMENSION
	ANSI	JIS				PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	1×3/4"	25×20	49	40	100	★	★	
	1 1/2×1	40×25	69	48	100	★	★	
	2×1	50×25	88	48	127	★	★	
	2×1 1/2	50×40	88	69	127	★	★	
	2 1/2×2	65×50	113	88	127	★	★	
	3×2	80×50	110	88	152	★	★	
	4×2	100×50	151	88	152	★	★	
	4×2 1/2	100×65	151	113	152	★	★	
	4×3	100×80	151	118	152	★	★	

TEE	NOMINAL SIZE		D(mm)	L(mm) Min	LINERS AVAILABLE		DIMENSION
	ANSI	JIS			PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	3/4"	20	40	80	★	★	
	1	25	48	89	★	★	
	1 1/2	40	69	102	★	★	
	2	50	88	114	★	★	
	2 1/2	65	113	127	★	★	
	3	80	118	140	★	★	
	4	100	151	165	★	★	
	6	150	204	203	★	★	
	8	200	256	229		★	
	10	250	312	279		★	
	12	300	366	305		★	

REDUCER TEE	NOMINAL SIZE		D(mm)	D1(mm)	D2(mm)	LINERS AVAILABLE		DIMENSION
	ANSI	JIS				PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	1×3/4"	25×20	49	40	89	★	★	
	1 1/2×1	40×25	69	48	102	★	★	
	2×1	50×25	88	48	114	★	★	
	2×1 1/2	50×40	88	69	114	★	★	
	2 1/2×2	65×50	113	88	127	★	★	
	3×2	80×50	110	88	140	★	★	
	4×2	100×50	151	88	165	★	★	
	4×2 1/2	100×65	151	113	165	★	★	
	4×3	100×80	151	118	165	★	★	

INSTURMENT TEE	NOMINAL SIZE		D(mm)	D1(mm)	L(mm)	H(mm)	DIMENSION
	ANSI	JIS					
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	3/4"	20A	40	60	80	60	
	1	25A	48	66	89	60	
	1 1/2	40	69	85	102	60	
	2	50A	88	103	114	60	
	2 1/2	65A	113	122	127	60	
	3	80A	118	135	140	60	
	4	100A	151	173	165	60	
	6	150A	204	221	203	60	
	8	200A	256	278	229	60	
	10	250A	312	339	279	60	

CROSS	NOMINAL SIZE		D(mm)	L(mm)	LINERS AVAILABLE		DIMENSION
	ANSI	JIS			PFA	PTFE	
 <p>STANDARD FLANGE ANSI 150Lb OR JIS 10K</p>	3/4"	20	40	80	★	★	
	1	25	48	89	★	★	
	1 1/2	40	69	102	★	★	
	2	50	88	114	★	★	
	2 1/2	65	113	127	★	★	
	3	80	118	140	★	★	
	4	100	151	165	★	★	
	6	150	204	203	★	★	
	8	200	256	229		★	
	10	250	312	279		★	
	12	300	366	305		★	

## SAFETY VALVE & VACUUM BREAKER

Our safety valve and VACUUM BREAKER are safety valves for semiconductors jointly developed with YooYeon Corporation and applied to tanks. It is a gas type safety valve with acid resistance by FUME rather than direct liquid. It is used as a LINED product when the chemical liquid in the pressure vessel is inorganic solvent and an E.P product when organic solvent is used.

In the case of some storage containers, a vacuum may occur when the pressure drops rapidly, but if the vacuum inside the container is not resolved, the container may be damaged. There is a risk of a chemical accident. VACUUM BREAKER not only prevents damage to equipment due to vacuum generation in liquid or gas systems, but also prevents the release of toxic gases from pipelines exposed to workmen. It is a product used to protect human safety and prevent malfunction.

### SAFETY VALVE FOR EQUIPMENT



- MODEL : SFL-7S(Cap)
- SIZE : 1/2"x3/4", 3/4"x3/4"
- TYPE : E.P
- WORKING PRESS : 0.5~10kgf/cm<sup>2</sup>
- DESIGN TEMP. : Max 50°C
- FLUID : N2/CDA



- MODEL : SFL-7S(Lever)
- SIZE : 1/2"x3/4", 3/4"x3/4"
- TYPE : E.P
- WORKING PRESS. : 0.5~10kgf/cm<sup>2</sup>
- DESIGN TEMP. : Max 50°C
- FLUID : N2/CDA



- MODEL : SFL-7SN
- SIZE : 1/2"x3/4", 3/4"x3/4"
- TYPE : E.P
- WORKING PRESS. : 0.5~10kgf/cm<sup>2</sup>
- DESIGN TEMP. : Max 50°C
- FLUID : N2/CDA

### SAFETY VALVE for pressure vessel



- MODEL : SFA-1
- SIZE : 20A, 50A
- TYPE : LINING / E.P
- WORKING PRESS. :
  - LINING : 0.5~8kgf/cm<sup>2</sup>
  - E.P : 0.5~10kgf/cm<sup>2</sup>
- DESIGN TEMP. :
  - Max 50°C
- FLUID : N2



- MODEL : SFS-2
- SIZE : 20A, 25A, 50A
- TYPE : LINING / E.P
- WORKING PRESS. :
  - LINING : 0.5~8kgf/cm<sup>2</sup>
  - E.P : 0.5~10kgf/cm<sup>2</sup>
- DESIGN TEMP. :
  - Max 50°C
- FLUID : N2

### VACUUM BREAKER



- MODEL : VBT-Note
- SIZE : 20A ~ 50A
- TYPE : Flange / Cap
- WORKING PRESS. :
  - Mzx. 10kgf/cm<sup>2</sup>
- DESIGN TEMP. :
  - Max 100°C
- VACUUM PRESS. :
  - 0.001 ~ 0.005mmHg
- WORKING FLUID : HF,
- HNO<sub>3</sub>, C<sub>3</sub>H<sub>7</sub>COOH, H<sub>2</sub>SO<sub>3</sub>

\* Please inquire separately for detailed specifications of safety valve

# Fluororesin Parts

Fluorotech's precision processing technology produces parts that are applied to core processes in major industries such as semiconductors, displays, and chemical plants by precision analysis and processing according to the characteristics of fluororesin and high-functional materials. It is a product that localizes various parts of each process and boasts the best in the industry in terms of delivery time, quality, and price.

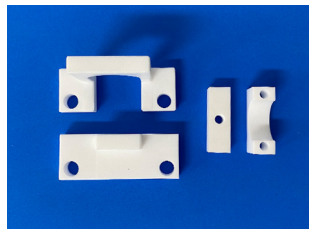
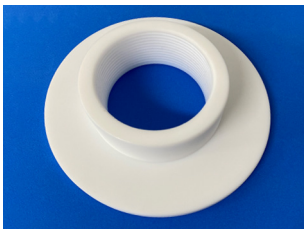
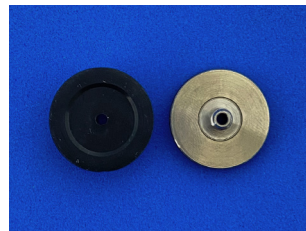
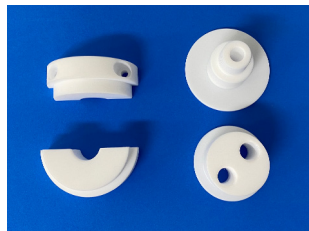
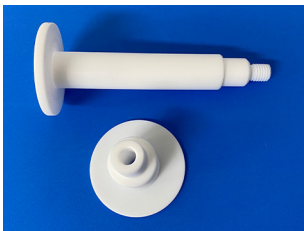
## MOLDING BATH

It is a one-piece compression molded product using fluororesin. As there is no welding wire, the risk of leakage is low and can be used for a long time.



## Other Parts

We have secured technology in various fields and are specializing in the localization of various parts based on the fluororesin processing technology used for conductor equipment. We manufacture and supply various processed products including O-rings, Vacuum Pads, Blades, and Holders. It is also used by applying a fluororesin coating to the metal surface of other components.

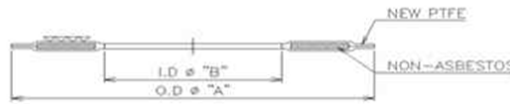




# Fluoresin Parts

FLUORO TECH CO., LTD. has developed an FTSA gasket that has improved the eccentricity of the existing O.D.S gasket and improved the inclination of the gasket that occurs on the assembly. assembly timelt is designed to prevent leakage due to shortening and gasket in advance. FTSA Gasket is not only patented and design/trademark registered, but also among gasket products.It is the only initial product certified by German TUV SUD in Korea.

## O.D.S GASKET



**ASKET MATERIAL: NEW PTFE + NON ASBESTOS**

- ANSI standards are not currently being produced.
- ODS products are not TUV certified.

KS standard	15A	20A	25A	32A	40A	50A	65A	80A	100A
A	14	19	25	33	39	50	65	80	101
B	55	60	70	80	86	102	120	129	152

## PTFE GASKET (for safety valve)



**Gasket material: 100% PTFE**

- Gasket for assembling the upper and lower parts of the rupture disc made of 100% PTFE. It is manufactured in accordance with the outer diameter of the disc holder of the rupture disk. It can be stably installed and used without any problems in the operation of the rupture disk during assembly.

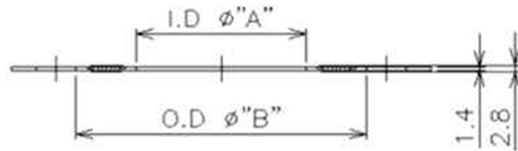
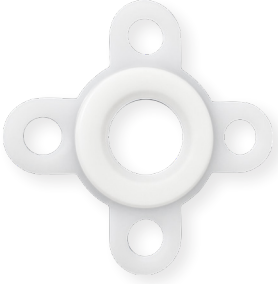
## PTFE GASKET (for rupture plate)



**Gasket material: 100% PTFE**

- Gasket for assembling the upper and lower parts of the rupture disc made of 100% PTFE. It is manufactured in accordance with the outer diameter of the disc holder of the rupture disk. It can be stably installed and used without any problems in the operation of the rupture disk during assembly.

## FTSA GASKET



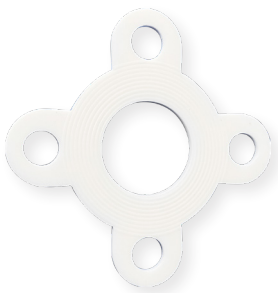
GASKET MATERIAL: NEW PTFE + NON ASBESTOS

TUV certificate FTSA GASKET



KS standard	15A	20A	25A	32A	40A	50A	65A	80A	100A
A	15.4	21.2	29.5	35.2	46.7	59.9	72.1	54.2	96
B	53	58	69	79	84	99	119	129	154
ANSI standard	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	15.4	21.2	29.5	35.2	46.7	59.9	72.1	84.2	96.3
B	42.3	51.2	61.2	70.9	80.4	98.6	117.7	130.4	168.5

## FTSA PTFE GASKET



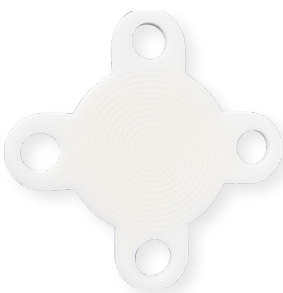
Gasket material: 100% PTFE

- It is a SOLID-type GKASKET made of 100% PTFE material certified by TUV in Germany along with FTSA GASKET.
- Specifications are the same as FTSA GASKET.



TUV certificate FTSA PTFE GASKET

## FTSA BLIND GASKET



Gasket material: 100% PTFE

- It is a BLIND-type gasket made of 100% PTFE material, and it is manufactured in the form of FTSA(our patented design)
- to increase assembly efficiency. Specifications are the same as FTSA GASKET

# Certificates

## Major Certifications



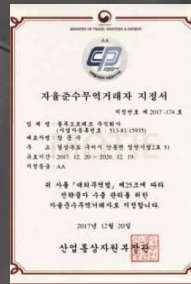
**Gumi Headquarters ISO**  
9001:2015



**Gumi Headquarters ISO**  
14001:2015



**Gumi Headquarters ISO**  
45001:2018



**Voluntary Compliance Trader (CP) Designation**



**CSEL manufacturing license**  
(Pressure Vessel D2)



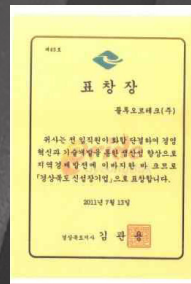
**Promising SMEs**



**Excellent company FAMILY company**



**CLEAN workplace**



**Commendation from Gyeongsangbuk-do Governor**



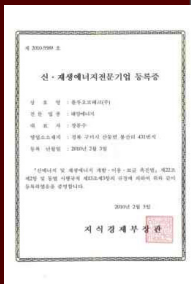
**Small and Medium Business Administration Commendation**



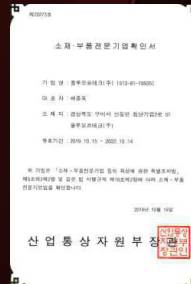
**R&D department accreditation**



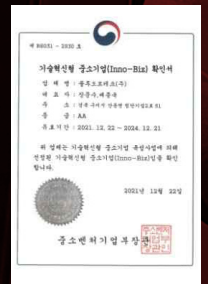
**Small and Medium Business Innovation Award**



**A company specializing in new and renewable energy**



**Material and parts specialist**



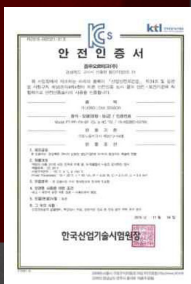
**Technology innovative SME INNO-BIZ confirmation**



**TUV product certification**  
(FTSA Gasket)



**TUV product certification**  
(PTFE Gasket)



**Explosion-proof certificate**  
(Leak Sensor)



**CE Certificate**  
(Leak Sensor)



**UL Certificate**  
(Leak Sensor)



# Industrial Property Status



Portable leak check device for chemical liquid tank



Automatic welding machine



Electrolyte and ultrapure water transfer equipment for electropolishing



High-efficiency automated resin welding equipment for synthetic resins



Adhesive pad for assembling piping in semiconductor manufacturing facilities



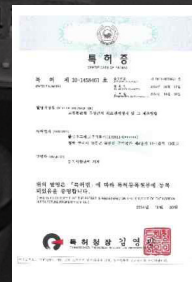
How to install a slate roof type solar panel



Solar tracking device of solar system for post installation



Flexible sheet type material property detection leak sensor and its manufacturing method



Fixed plate type physical property detection leak sensor device and its manufacturing method



Solar tracking rotation device of solar system for post installation



Noxious gas detection device



Flexible sheet type property detection leak sensor device



Flexible sheet type material property detection leak sensor device [split application]



leak detection sensor



design registration certificate (Solar panel module fixing zone)



design registration certificate (Gasket for piping connection)



Trademark registration certificate (FTSA GASKET)

THE BEST

Everyone in the world is in pursuit of alues  
beyond chemical safety to realize safety, relief and trust.



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