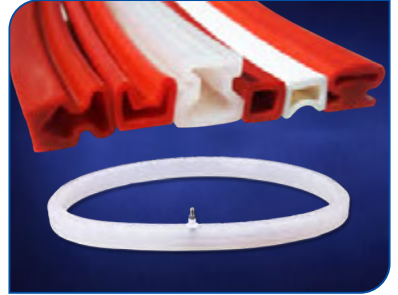




# Ami Polymer

“Sealing Expert in Silicone”

TUV NORD CERTIFIED:- ISO 9001:2015 (QMS), ISO 14001:2015 (EMS), ISO 45001:2018 (HEALTH AND SAFETY), ISO 27001:2013 (ISMS), ISO 13485:2016 (MEDICAL DEVICES)  
CERTIFIED MANUFACTURING FACILITY OF CLEAN ROOM CLASS 10000



## MANUFACTURING EXCELLENCE IN

- SINGLE-USE BAGS & ASSEMBLIES
- PHARMA TUBING
- REINFORCED HOSES
- INFLATABLE SEALS
- SIEVES AND SCREENS

EXTRACTABLE STUDIES ON PHARMA  
TUBING AND SINGLE-USE COMPONENTS  
ACCORDING TO BPOG GUIDELINES

EXTRACTABLE STUDIES ON  
PHARMA TUBING FROM  
TOXIKON USA LAB

NSF-51 CERTIFIED  
SILICONE RESIN  
SLE-(P-T) 30 TO  
SLE-(P-T)-80



[info@amipolymer.com](mailto:info@amipolymer.com)  
[www.amipolymer.com](http://www.amipolymer.com)



# About Us

## APPL CORPORATE OFFICE



Since 1998, APPL has been engaged in the business of polymer products, which ultimately provide solutions to fluid transfers, sealing and contamination controls for the pharma, biopharma, medical, laboratory, food, beverage and engineering sectors worldwide.

APPL has ISO class 7 and 8 cleanroom facilities certified with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013 and ISO 13485:2016. We also have a BPOG extractables program for our products for regulatory markets worldwide.

APPL has world-class manufacturing technology with end-to-end process capabilities to fulfill the needs of customers. Our advanced facilities include laser-controlled extrusion, automated hose production lines, thermoplastic extrusion lines, automatic hydraulic presses for elastomers and polymeric components, a cutting-edge laboratory equipped with R&D machinery, in-house tooling and mold-making machinery, laser cutting machines and online printing and marking systems.



The Company believes in **“Be in business with ethics”** and assure **Quick Development, Fastest Delivery, Ultimate Quality** and also very **Competitive Rates**.

## APPL MANUFACTURING FACILITY



### Our Strength

- ▲ Expanding manufacturing capacity by adding a new world-class manufacturing facility with a total area of 2,50,000 sq ft (including 60,000 sq ft of clean room) located in Kala, Dadra Nagar Haveli Daman and Diu, India
- ▲ 25+ registered brands with a global sales footprint in 50+ countries
- ▲ A dedicated strength of 600+ employees, which includes qualified polymer technologists, biotechnologists, engineers, and management professionals
- ▲ Excellence in the manufacturing process through world-class extrusion, molding and tooling facilities
- ▲ Quick development of customized single-use manifolds and bag assemblies
- ▲ Dedicated research facility with the latest laboratory equipment and devices.
- ▲ A world-class hose crimping and hydrotesting facility ensures leak-proof performance.
- ▲ Laser-controlled extrusion system for accurate dimensions of tubing and profiles
- ▲ In-house tool design capabilities through advanced CMC and VMC machines
- ▲ Awarded in Asia-Pacific Bioprocessing Excellence Awards-2023 for the Best Bioprocessing Supplier: Single-Use Consumables



# APPL CLEAN ROOM CLASS 10000 CERTIFIED FACILITY



## Our Strength

- ▲ **DMF #26201, 32560,32558, 32556, 32559, 32561 & 32549 (Drug Master File) for manufacturing of Tubes and Hoses accredited by USFDA**
- ▲ **Clean Room of Class 10000 Certified Facility**
- ▲ **NSF-51 Certification** on Platinum Cured Silicone Resin (84% Standards of USFDA are derived from NSF)
- ▲ **BPOG** standardized extractables test reports on single-use products
- ▲ **TOXIKON Lab (USA)** based E&L study, USP class87, ISO 10993 biocompatibility studies on products
- ▲ **TUV Nord Certified IMS (Integrated Management System) facility**  
[ **ISO 9001:2015, ISO 14001:2015, ISO 45001:2018** ] ; **ISO 27001:2013 ; ISO 13485:2016**
- ▲ High Performance Capability and Credit Rating of **MSE-1 from CRISIL**
- ▲ Sound Infrastructure and Capabilities to Develop Tailor-made Products as per Customer's Requirements
- ▲ Most advanced fully automatic Microwave Continuous Curing System which ensures Accurate Dimension, Glossy Surface and Aesthetically Finished Profiles
- ▲ Successfully developed 5000+ customized products and having 3000+ satisfied customer globally.



# Imapure<sup>®</sup>

## Platinum Cured Silicone Tubing for Critical Pharmaceutical Applications

**Imapure<sup>®</sup>** Platinum Cured Silicone Tubing is designed for critical fluid transfer applications in pharmaceutical industry. Tubing has excellent Peristaltic Pumps life which ensures risk free fluid flow operations. It has an ultra-smooth bore that prevents particle entrapment. It is completely designed to meet all regulatory market requirements covering detailed extractable study program according to PQRI and BPOG Guidelines.

### CHARACTERISTICS

- ▲ Manufactured by using PLC controlled latest extrusion technology and world class platinum grade silicone resin.
- ▲ Manufactured and packaged in clean room class of 10000 facility audited by **TUVNord**.
- ▲ Inspected by Laser online inspection device to maintain critical dimensional consistency.
- ▲ Excellent flexibility along with flex crack resistance.
- ▲ Excellent transparency with no odor and taste which enhances shelf life.
- ▲ Excellent biocompatibility due to inertness to tissues and cells.

### COMPLIANCE & CERTIFICATIONS

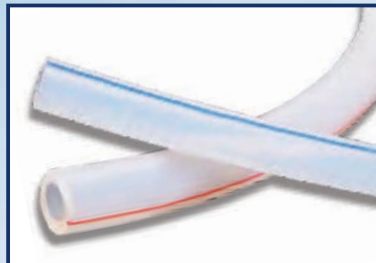
- |   |                                     |
|---|-------------------------------------|
| ▲ FDA 21 CFR 177.2600                     | ▲ TSE / BSE FREE                    |
| ▲ GERMAN BFR XV                           | ▲ NSF -51                           |
| ▲ FRANCE ARRETE DU 25                     | ▲ USP CLASS 87                      |
| ▲ USP CLASS VI                            | ▲ BPA free                          |
| ▲ ISO 10993-11                            | ▲ TOXIKON based extractable studies |
| ▲ ISO 10993-10                            | ▲ PHTHALATE FREE                    |
| ▲ ISO 10993-5                             | ▲ RoHS Compliant                    |
| ▲ ISO 10993-4                             | ▲ European Pharmacopoeia E.P. 3.1.9 |
| ▲ ISO 10993-3                             | ▲ FDA DMF#26201                     |
| ▲ ISO 13485                               | ▲ BPOG EXTRACTABLE STUDIES          |
| ▲ USP 661                                 | ▲ USP 381                           |
| ▲ Nitrosamine Impurities Free Declaration |                                     |

### Validation pack available upon request.

Covers Manufacturing Process, Physical Properties, MSDS, Chemical Compatibility Chart, Toxicological Studies, Biocompatibility Studies, Extractable Studies.



**LASER BASED AUTO INSPECTION DEVICE**

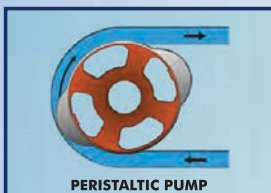


**COLOR CODED TUBING FOR IDENTIFICATION**

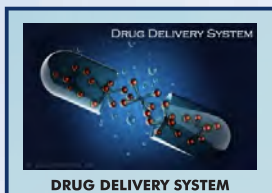


**PERMANENT LASER PRINTING AVAILABLE WITH STERILIZABLE PACKAGING**

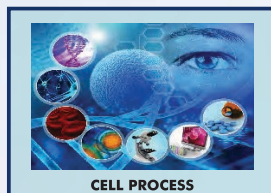
## TUBING APPLICATIONS



**PERISTALTIC PUMP**



**DRUG DELIVERY SYSTEM**



**CELL PROCESS**



**LABORATORY APP.**



**BIO-PHARMA PROCESS**



**FOOD AND BEVERAGES**



**MEDICAL APPLICATION**



**VIALS FILLING**

### STORAGE GUIDELINES

- ▲ Store in cool and dry place
- ▲ Keep away from sunlight
- ▲ Shelf life 5 years from mfg. date
- ▲ Available in sterilizable packaging

### STERILIZATION METHODS

STEAM  
GAMMA  
ETO



## Antistatic Silicone Tube

Antistatic silicone tubing is specially developed to remove static electric charge while transfer of flammable fluid. Antistatic tubing is successfully tested for food grade FDA 21 CFR 177.2600 Test.

**Specially developed Static Dissipative Formulation (10<sup>7</sup> to 10<sup>9</sup> Ω-cm)**



## Imapure-EPL™

### Platinum Cured Silicone Tubing with Extended Pump Life for Continuous Peristaltic Pump Operations

#### CHARACTERISTICS

- ▲ Imapure® EPL is specially formulated tubing for continuous peristaltic pump operations.
- ▲ Tubing is having excellent peristaltic pump life and flex crack resistance over longer period of continuous operations.
- ▲ Manufactured in clean room facility of Class 10000.

#### COMPLIANCE & CERTIFICATIONS

- |                                      |                             |
|--------------------------------------|-----------------------------|
| ▲ FDA 21 CFR 177.2600                | ▲ USP <87> in Vitro         |
| ▲ Extractable Study (BPOG guideline) | ▲ USP <88> In Vivo          |
| ▲ Nitrosamine Free Declaration       | ▲ Phthalate Free            |
| ▲ ISO 10993-4 Hemocompatibility      | ▲ ISO 10993-11 Pyrogen Test |

Standard Silicone Tubing

42

Imapure® EPL Tubing

144



The tubing sample of size ID 6.4 mm ID X OD 9.6 OD was steam sterilized at a temperature of 121 °C for a period of 30 minutes. A four-roller pump head was utilized, operating at 600 RPM at a room temperature of 27 ± 2°C. Water was used as a transfer liquid and the testing was performed with zero PSI back pressure. Due to its specific formulation, Imapure® EPL Platinum-Cured Silicone Tubing provides exceptional continuous pumping life. As demonstrated in the above graph, it provides more than three times the pump life compared to standard platinum silicone tubing.

\* Imapure® EPL tubing is not intended for Implant Application.

# Standard Sizes for Impure® EPL

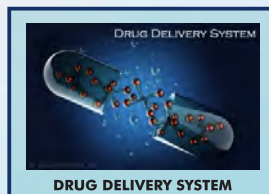
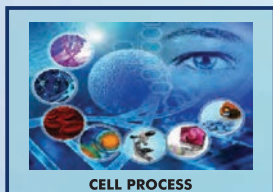
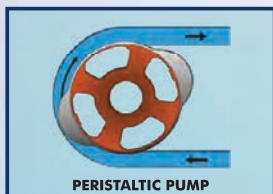
CATALOGUE NO.	SIZE					CATALOGUE NO.	SIZE				
	ID		OD		WT		ID		OD		WT
	INCH	MM	INCH	MM			MM	INCH	MM	INCH	
IPEPL-012-044	0.047	1.2	0.173	4.4	1.6	IPEPL-079-174	0.311	7.9	0.685	17.4	4.75
IPEPL-015-047	0.059	1.5	0.185	4.7	1.6	IPEPL-080-130	0.315	8	0.512	13	2.5
IPEPL-016-031	0.063	1.6	0.125	3.17	0.785	IPEPL-080-140	0.315	8	0.551	14	3
IPEPL-020-060	0.079	2	0.236	6	2	IPEPL-080-120	0.315	8	0.472	12	2
IPEPL-024-056	0.094	2.4	0.22	5.6	1.6	IPEPL-080-110	0.315	8	0.433	11	1.5
IPEPL-030-080	0.118	3	0.315	8	2.5	IPEPL-080-160	0.315	8	0.63	16	4
IPEPL-031-047	0.122	3.1	0.187	4.76	0.83	IPEPL-090-150	0.354	9	0.591	15	3
IPEPL-032-064	0.126	3.2	0.252	6.4	1.6	IPEPL-095-159	0.374	9.5	0.626	15.9	3.2
IPEPL-032-047	0.126	3.2	0.185	4.7	0.75	IPEPL-095-127	0.374	9.5	0.5	12.7	1.6
IPEPL-040-060	0.157	4	0.236	6	1	IPEPL-095-142	0.374	9.5	0.562	14.28	2.39
IPEPL-047-111	0.185	4.7	0.437	11.1	3.2	IPEPL-096-144	0.378	9.6	0.567	14.4	2.4
IPEPL-047-095	0.187	4.76	0.374	9.5	2.37	IPEPL-100-180	0.394	10	0.709	18	4
IPEPL-047-079	0.187	4.76	0.311	7.9	1.57	IPEPL-100-160	0.394	10	0.63	16	3
IPEPL-048-096	0.189	4.8	0.378	9.6	2.4	IPEPL-100-140	0.394	10	0.551	14	2
IPEPL-050-010	0.197	5	0.394	10	2.5	IPEPL-120-180	0.472	12	0.709	18	3
IPEPL-050-080	0.197	5	0.315	8	1.5	IPEPL-120-160	0.472	12	0.63	16	2
IPEPL-055-010	0.217	5.5	0.394	10	2.25	IPEPL-127-190	0.5	12.7	0.75	19.05	3.175
IPEPL-060-120	0.236	6	0.472	12	3	IPEPL-158-222	0.625	15.87	0.875	22.22	3.175
IPEPL-060-090	0.236	6	0.354	9	1.5	IPEPL-160-240	0.63	16	0.945	24	4
IPEPL-060-100	0.236	6	0.394	10	2	IPEPL-180-300	0.709	18	1.181	30	6
IPEPL-063-127	0.25	6.35	0.5	12.7	3.175	IPEPL-190-270	0.748	19	1.063	27	4
IPEPL-063-111	0.25	6.35	0.437	11.11	2.38	IPEPL-190-250	0.748	19	0.984	25	3
IPEPL-063-095	0.25	6.35	0.374	9.5	1.575	IPEPL-190-254	0.75	19.05	1	25.4	3.175
IPEPL-065-112	0.256	6.5	0.441	11.2	2.35	IPEPL-250-350	0.984	25	1.378	35	5
IPEPL-079-111	0.311	7.9	0.437	11.11	1.605	IPEPL-200-260	0.787	20	1.024	26	3
IPEPL-079-127	0.311	7.9	0.5	12.7	2.4	IPEPL-380-560	1.496	38	2.205	56	9

## STORAGE GUIDELINES

- ▲ Store in cool and dry place
- ▲ Keep away from sunlight
- ▲ Shelf life 5 years from mfg. date
- ▲ Available in sterilizable packaging

## STERILIZATION METHODS

STEAM  
GAMMA  
ETO







## Ultra-low Temperature Resistant Silicone Tubing

### CHARACTERISTICS

- ▲ Suitable for applications related to low-temperature bulk drug storage and transportation.
- ▲ Maintains flexibility and dimensional stability at extremely low temperatures (-112 °C).
- ▲ Manufactured and packaged in an ISO 9001 certified clean room of class 10000.
- ▲ Tubing can be customized for single-use manifolds or bag assemblies.
- ▲ Compliant with TSE/BSE-free and Nitrosamine impurity free requirements.
- ▲ Laser coding is available for lot traceability.
- ▲ Manufactured and inspected through online auto inspection technology.
- ▲ Sterilizable by autoclave or gamma irradiation.
- ▲ Available in sterilized packs with customized lengths.

### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.2600
- ▲ USP <87> in Vitro
- ▲ Extractable Study (BPOG guideline)
- ▲ USP <88> In Vivo
- ▲ Nitrosamine Free Declaration
- ▲ Phthalate Free

CATALOGUE NO.	SIZE				STANDARD PACK SIZE
	ID		OD (mm)		
	INCH	MM	INCH	MM	
IMF-0318-0635	0.125	3.18	0.25	6.35	50
IMF-0635-0952	0.25	6.35	0.375	9.52	50
IMF-0635-1270	0.25	6.35	0.5	12.7	50
IMF-0952-1588	0.375	9.52	0.625	15.88	50
IMF-1270-1905	0.5	12.7	0.75	19.05	50

\* ImaFrost™ tubing is not intended for Implant Application.



**Imaflow<sup>®</sup>**

## Platinum Cured Silicone Tubing for Transfer of High Purity Fluids

**Imaflow<sup>®</sup>** is platinum grade silicone tubing designed for fluid transfer applications in food and pharmaceutical industries. It is compatible for peristaltic pump application and covering all basic compliances of food and pharma grade requirements.

### CHARACTERISTICS

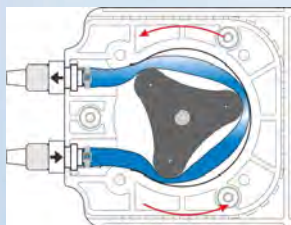
- ⤴ Manufactured by using high quality platinum grade silicone rubber.
- ⤴ Manufactured and packaged in Clean room of class 10000 facility audited by TUV Nord.
- ⤴ Better fluid transfer characteristics compare to peroxide silicone tubing.
- ⤴ Available with FDA approved silicone based color coding.
- ⤴ Better transparency and higher shelf life compare to peroxide tubing.
- ⤴ Free of any heavy metals and hazardous substances.
- ⤴ Available Nitrosamine Impurities Free Declaration

#### APPLICATIONS

- ⤴ Peristaltic pump based fluid transfer
- ⤴ Chemical and analytical analysis
- ⤴ Sanitary application
- ⤴ Drug delivery and sampling
- ⤴ Food and beverages transfer

#### STERILIZATION METHODS

STEAM  
GAMMA  
ETO



**PERISTALTIC PUMP APPLICATION**



**COFFEE VENDING APPLICATION**

# Platinum Cured Silicone Tubing Comparison Chart



SPECIFICATIONS	Imapure®	Imaflow®
NSF-51 Certification on Resin	Available	Not Available
Extractable and Leachable Studies	TOXIKON Lab USA	Domestic Lab
DMF Registration Letter	Available	Not Available
FDA 21 CFR 177.2600 (USA Food Grade Certificate)	Available	Available
EP 3.1.9	Available	Not Available
Acute Systemic Toxicity Test (USP Class VI)	Available	Available
Intracutaneous Toxicity Test (USP Class VI)	Available	Available
Implantation Test (USP Class VI)	Available	Available
Phthalate/Bisphenol Free COA	Available	Available
RoHS Certification	Available	Available
TSE/BSE Certification	Available	Available
Physical Property Test Report	Available	Available
German Bfr XV (German Food Grade COA)	Available	Not Available
France Arrete du 25 (France Food Grade COA)	Available	Not Available
Genotoxicity Test (ISO 10993-3 Biocompatibility Standard)	Available	Not Available
Hemocompatibility Test (ISO 10993-4 Biocompatibility Standard)	Available from TOXIKON Lab	Not Available
Cytotoxicity Test (ISO 10993-5 Biocompatibility Standard)	Available from TOXIKON Lab	Available
Sensitization Test (ISO 10993-10 Biocompatibility Standard)	Available	Not Available
Manufacturing Environment of Product	Clean Room ISO Class 7	Clean Room ISO Class 7
Shelf Life	5 Years	5 Years



## Dairy Silicone Tubing

### Silicone Tubing for Dairy Application

Silicone Tubing which ensures milk processing or transfer of milk with safe, hygienic and high performance. Platinum Cured Silicone Tubing is designed for the application in Automatic milking system / rotary milking parlour/robotic milking / Peristaltic Pumps. Our transparent silicone tubing is known for its ultra-smooth bore to prevent any particle entrapment, reduces the chances of butterfat occurrence. It eliminates the probability of Microbial growth within the milk transfer line and ensures smooth transfer of milk.

#### FEATURES/BENEFITS

- ▲ Superior flexibility and Kink resistance properties.
- ▲ Clear transparency allows easy visual inspection of Milk during process.
- ▲ Smooth bore to ensure less contamination and resists butterfat build-up.
- ▲ Water repellent properties allow easy cleaning complete sockaway
- ▲ Excellent weather resistance properties.
- ▲ Non-toxic, non-hemolytic.
- ▲ Free of plasticizers like phthalate/bisphenol-A
- ▲ Higher Shelf life
- ▲ Free of any heavy metals and hazardous substances.
- ▲ Sterilisable by using different techniques like autoclaving, Ethylene oxide, Gamma radiation.
- ▲ Customized Colour , dimension and hardness available on demand.
- ▲ Good flex fatigue resistance enhance Milking peristaltic pump life & Milking Dosing Pump Life.

#### APPLICATION

- ▲ For Raw milk transfer.
- ▲ For Bulk milk transfer.
- ▲ For Rotary Milking Parlour line.
- ▲ For Milking Dosing Pumps.
- ▲ For Milking Peristaltic Pumps.

#### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177. 2600
- ▲ TSE / BSE FREE
- ▲ PHATHALATE FREE
- ▲ LAB TEST REPORT
- ▲ Nitrosamine Impurities Free Declaration



**DAIRY APPLICATION**



**Imapex<sup>®</sup>**

**Peroxide Cured Silicone Tube**

**Imapex<sup>®</sup>** Peroxide Grade Silicone Tubing is designed for general, non-critical and engineering applications. It is translucent silicone tubing having good flexibility and resiliency. It is suitable for peristaltic pump applications for non-critical fluid transfer. It meets with food grade requirements as per FDA 21 CFR 177.2600

**CHARACTERISTICS**

- ▲ Manufactured by using high quality peroxide grade silicone rubber.
- ▲ Manufactured and packaged in dust free environment of facility audited by **TUV Nord**.
- ▲ Odorless and tasteless.
- ▲ Good physical properties like compression set and tensile strength.
- ▲ Good flex fatigue resistance enhances peristaltic pump life.
- ▲ Available with FDA compliant color coding for ease of identification.
- ▲ Free of BPA and phthalate.

**COMPLIANCE & CERTIFICATIONS**

- ▲ FDA 21 CFR 177.2600
- ▲ TSE/BSE FREE
- ▲ PHATHALATE FREE
- ▲ LAB TEST REPORT
- ▲ Nitrosamine Impurities Free Declaration

**STORAGE GUIDELINES**

- ▲ Store in cool and dry place
- ▲ Keep away from sunlight
- ▲ Shelf life 3 years from mfg. date
- ▲ Available in sterilizable packaging

**STERILIZATION METHODS**

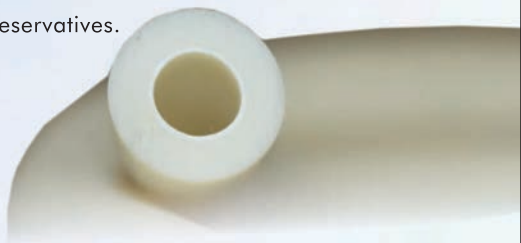




# Imaliner®

## Bi-Layer Thermoplastic Elastomer Tube

- ▲ **Imaliner®** is Bi-Layer tubing specially designed by using thermoplastic elastomer.
- ▲ Inner layer is having low coefficient of friction to enhance smooth fluid flow operation.
- ▲ Outer layer is made from high abrasion resistance TPE to reduce spallation.
- ▲ Having excellent flex crack resistance.
- ▲ Inner layer is highly resistant to alcohol based solvents and preservatives.



### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.2600
- ▲ USP CLASS VI
- ▲ Extractable Studies
- ▲ BPA free
- ▲ PHTHALATE FREE
- ▲ USP CLASS 87
- ▲ DMF NO: 32559
- ▲ TSE / BSE FREE
- ▲ ISO 10993-4
- ▲ Plasticizer Free
- ▲ ROHS Compliant
- ▲ ISO 10993-5
- ▲ ISO 10993-11

### PRESERVATIVES TESTED FOR INITIAL, 8h ,12h ,18h ,24h ,48h TIMELINES

Benzalkonium Chloride

Benzyl Alcohol

Methyl Paraben

Propyl Paraben

M-Cresol

## Standard Sizes for Imaliner®

CATALOGUE	SIZE					CATALOGUE NO	SIZE				
	ID		OD		WT		ID		OD		WT
	INCH	MM	INCH	MM			MM	INCH	MM	INCH	
ILN-012-044	0.047	1.20	0.173	4.40	1.60	ILN-079-174	0.311	7.90	0.685	17.40	4.75
ILN-015-047	0.059	1.50	0.185	4.70	1.60	ILN-080-130	0.315	8.00	0.512	13.00	2.50
ILN-016-031	0.063	1.60	0.125	3.17	0.79	ILN-080-140	0.315	8.00	0.551	14.00	3.00
ILN-020-060	0.079	2.00	0.236	6.00	2.00	ILN-080-120	0.315	8.00	0.472	12.00	2.00
ILN-024-056	0.094	2.40	0.22	5.60	1.60	ILN-080-110	0.315	8.00	0.433	11.00	1.50
ILN-030-080	0.118	3.00	0.315	8.00	2.50	ILN-080-160	0.315	8.00	0.63	16.00	4.00
ILN-031-047	0.122	3.10	0.187	4.76	0.83	ILN-090-150	0.354	9.00	0.591	15.00	3.00
ILN-032-064	0.126	3.20	0.252	6.40	1.60	ILN-095-159	0.374	9.50	6.26	15.90	3.20
ILN-032-047	0.126	3.20	0.185	4.70	0.75	ILN-095-127	0.374	9.50	0.5	12.70	1.60
ILN-040-060	0.157	4.00	0.236	6.00	1.00	ILN-095-142	0.374	9.50	0.562	14.28	2.39
ILN-047-111	0.185	4.70	0.437	11.10	3.20	ILN-096-144	0.378	9.60	0.567	14.40	2.40
ILN-047-095	0.187	4.76	0.374	9.50	2.37	ILN-100-180	0.394	10.00	0.709	18.00	4.00
ILN-047-079	0.187	4.76	0.311	7.90	1.57	ILN-100-160	0.394	10.00	0.63	16.00	3.00
ILN-048-096	0.189	4.80	0.378	9.60	2.40	ILN-100-140	0.394	10.00	0.551	14.00	2.00
ILN-050-100	0.197	5.00	0.394	10.00	2.50	ILN-120-180	0.472	12.00	0.709	18.00	3.00
ILN-050-080	0.197	5.00	0.315	8.00	1.50	ILN-120-160	0.472	12.00	0.63	16.00	2.00
ILN-055-100	0.217	5.50	0.394	10.00	2.25	ILN-127-190	0.5	12.70	0.75	19.05	3.18
ILN-060-120	0.236	6.00	0.472	12.00	3.00	ILN-158-222	0.625	15.87	0.875	22.22	3.18
ILN-060-090	0.236	6.00	0.354	9.00	1.50	ILN-160-240	0.63	16.00	0.945	24.00	4.00
ILN-060-100	0.236	6.00	0.394	10.00	2.00	ILN-180-300	0.709	18.00	1.181	30.00	6.00
ILN-063-127	0.25	6.35	0.5	12.70	3.18	ILN-190-270	0.748	19.00	1.063	27.00	4.00
ILN-063-111	0.25	6.35	0.437	11.11	2.38	ILN-190-250	0.748	19.00	0.984	25.00	3.00
ILN-063-095	0.25	6.35	0.374	9.50	1.58	ILN-190-254	0.75	19.05	1	25.40	3.18
ILN-065-112	0.256	6.50	0.441	11.20	2.35	ILN-250-350	0.984	25.00	1.378	35.00	5.00
ILN-079-111	0.311	7.90	0.437	11.11	1.61	ILN-200-260	0.787	20.00	1.024	26.00	3.00
ILN-079-127	0.311	7.90	0.5	12.70	2.40	ILN-380-560	1.496	38.00	2.205	56.00	9.00



# Imaprene®

## Thermoplastic Elastomer Tube

**Imaprene®** is an Enduring and Flexible Pump Tubing. It has excellent compatibility with peristaltic pump and other solvents ideally used in pharmaceutical, printing, detergent process applications.

### CHARACTERISTICS

- ▲ Manufactured by using world class thermoplastic elastomer
- ▲ Manufactured and packaged in clean room of class 10000 facility audited by **TUV Nord**
- ▲ Excellent chemical and solvent resistance
- ▲ Superior flex crack resistance for peristaltic pump performance
- ▲ Smooth bore to ensure less contamination
- ▲ Free of plasticizers like phthalate/bisphenol-A
- ▲ Non-toxic, non hemolytic
- ▲ DMF #32549 accredited by USFDA

## Suitable for Alcohols

### COMPLIANCE & CERTIFICATIONS

- |                                      |                             |
|--------------------------------------|-----------------------------|
| ▲ FDA 21 CFR 177.2600                | ▲ USP <87> in Vitro         |
| ▲ Extractable Study (PQRI guideline) | ▲ USP <88> In Vivo          |
| ▲ Nitrosamine Free Declaration       | ▲ BPA and Phthalate Free    |
| ▲ ISO 10993-4 Hemocompatibility      | ▲ ISO 10993-11 Pyrogen Test |
| ▲ DMF NO: 32549                      | ▲ ROHS Compliant            |


### Validation pack available upon request.

Covers Manufacturing Process, Physical Properties, MSDS, Chemical Compatibility Chart, Toxicological Studies, Biocompatibility Studies, Extractable Studies.

### APPLICATIONS

- ▲ Peristaltic pump based fluid transfer
- ▲ Fermentation process
- ▲ Vaccine transfer
- ▲ Alcohol based formulation transfer

### STERILIZATION METHODS





## Thermoplastic Elastomer Tube with Heat Sealable and Weldable Properties

**Imaweld®** is thermoplastic elastomer tubing designed for cell culture process in biotech industries. It is widely used in biopharma applications to transfer critical fluids. **Imaweld®** is specially formulated to have heat sealing and welding properties.

### CHARACTERISTICS

- ▲ Free of any toxic ingredients, successfully meets toxicity free requirements.
- ▲ Manufactured and packaged in clean room of class 10000 facility audited by TUV Nord.
- ▲ Heat sealable and weldable to facilitate sterile connection.
- ▲ Good flexibility and surface finish with custom dimension and length size available.
- ▲ Excellent acid and alkali resistance
- ▲ Smooth bore surface to eliminate particle entrapment
- ▲ DMF #32560 accredited by USFDA
- ▲ Extractable studies available as per the BPOG guidelines.

### COMPLIANCE & CERTIFICATIONS

- |                                |                            |
|--------------------------------|----------------------------|
| ▲ FDA 21 CFR 177.2600          | ▲ USP CLASS 87             |
| ▲ USP CLASS VI                 | ▲ BPA and Phthalate Free   |
| ▲ Extractable Study            | ▲ ROHS Compliant           |
| ▲ Nitrosamine Free Declaration | ▲ BPOG Extractable Studies |
| ▲ ISO 10993-4                  | ▲ TSE/BSE FREE             |
| ▲ DMF NO: 32560                | ▲ ISO 10993-5              |
| ▲ ISO 10993-11                 | ▲ Plasticizer Free         |

### Validation pack available upon request.

Covers Manufacturing Process, Physical Properties, MSDS, Chemical Compatibility Chart, Toxicological Studies, Biocompatibility Studies, Extractable Studies.

### APPLICATIONS

- ▲ Cell culture processing
- ▲ Bio-pharma and fermentation application
- ▲ Biosimilar product manufacturing
- ▲ Microbiological Application

### STERILIZATION METHODS







**Imachemton<sup>®</sup>**

**FKM Rubber Tube**

**Imachemton<sup>®</sup>** is fluoropolymer tubing especially designed for highly corrosive chemicals and solvents used in pharmaceutical industries. It is manufactured in dedicated controlled environment to comply critical food and pharma grade standards.

### CHARACTERISTICS

- ▲ Excellent resistance to alcohols, acids, halogenated solvents
- ▲ Manufactured in clean room of class 10000 facility
- ▲ Double polybag packaged in standard pack size of 25 mtr
- ▲ (custom packing sizes available)
- ▲ Greater flame and fire resistance
- ▲ Service temperature : - 15 °C to + 250 °C
- ▲ DMF #32556 accredited by USFDA



### COMPLIANCE & CERTIFICATIONS

- |                                |                          |
|--------------------------------|--------------------------|
| ▲ FDA 21 CFR 177.2600          | ▲ BPA and Phthalate Free |
| ▲ USP CLASS VI                 | ▲ ROHS Compliant         |
| ▲ Extractable Study            | ▲ TSE/BSE FREE           |
| ▲ Nitrosamine Free Declaration | ▲ Plasticizer Free       |

### Validation pack available upon request.

Covers Manufacturing Process, Physical Properties, MSDS, Chemical Compatibility Chart, Toxicological Studies, Biocompatibility Studies, Extractable Studies.

### APPLICATIONS

- ▲ Corrosive chemical transfer
- ▲ Chlorinated, fluorinated chemical transfer
- ▲ Chemical and analytical analysis
- ▲ Fuel and oil industries

### STERILIZATION METHODS

STEAM



**Imafep®**

## FEP (Fluorinated Ethylene Propylene)/Fluoropolymer Tube

**Imafep®** is (Fluorinated Ethylene Propylene) tubing designed for highly corrosive fluid transfer in pharmaceutical industry. **Imafep®** is specially formulated to have excellent compatibility with all major pharmaceutical applications.

### CHARACTERISTICS

- ▲ Double polybag packaged in clean room of class 10000 facility.
- ▲ Good flexibility compared to PTFE tubing.
- ▲ Transparency facilitates fluid flow visibility.
- ▲ Excellent acid and alkali resistance.
- ▲ Ultra-smooth bore surface to eliminate particle entrapment.
- ▲ Custom dimension and length size available.
- ▲ Steam sterilization Compatible.
- ▲ Thermally resistant up to 205 °C

### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.1550
- ▲ Extractable Study
- ▲ Nitrosamine Free Declaration
- ▲ ISO 10993-11
- ▲ ROHS Compliant
- ▲ USP CLASS VI
- ▲ BPA Free
- ▲ Phthalate Free

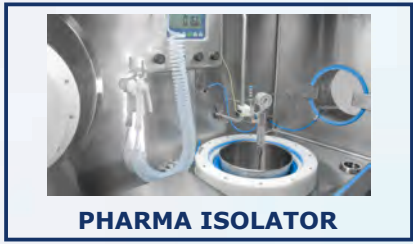
CATALOGUE NO.	SIZE					CATALOGUE NO.	SIZE				
	ID		OD		WT		ID		OD		WT
	INCH	MM	INCH	MM			MM	INCH	MM	INCH	
IFP-016-032	0.063	1.60	0.126	3.2	0.80	IFP-055-075	0.217	5.50	0.295	7.50	1.00
IFP-020-040	0.079	2.00	0.157	4	1.00	IFP-060-080	0.236	6.00	0.315	8.00	1.00
IFP-030-050	0.118	3.00	0.197	5	1.00	IFP-064-095	0.252	6.40	0.374	9.50	1.55
IFP-032-064	0.126	3.20	0.252	6.4	1.60	IFP-070-090	0.276	7.00	0.354	9.00	1.00
IFP-040-064	0.157	4.00	0.252	6.4	1.20	IFP-079-095	0.311	7.90	0.374	9.50	0.80
IFP-040-060	0.157	4.00	0.236	6	1.00	IFP-080-100	0.315	8.00	0.394	10.00	1.00
IFP-048-064	0.189	4.80	0.252	6.4	0.80	IFP-095-127	0.374	9.50	0.5	12.70	1.60
IFP-048-079	0.189	4.80	0.311	7.9	1.55	IFP-100-120	0.394	10.00	0.472	12.00	1.00
IFP-050-070	0.197	5.00	0.276	7	1.00	IFP-120-140	0.472	12.00	0.551	14.00	1.00



# FEP Retractable Coil

## CHARACTERISTICS

- ▲ Excellent transparency
- ▲ Great retractability
- ▲ Resistant to virtually all chemicals
- ▲ Low coefficient of friction
- ▲ Ultra smooth bore to eliminate particle entrapment
- ▲ Custom dimension and length size available
- ▲ Steam sterilization Compatible.
- ▲ Thermally resistant up to 205 °C
- ▲ Manufactured & packaged in Clean Room



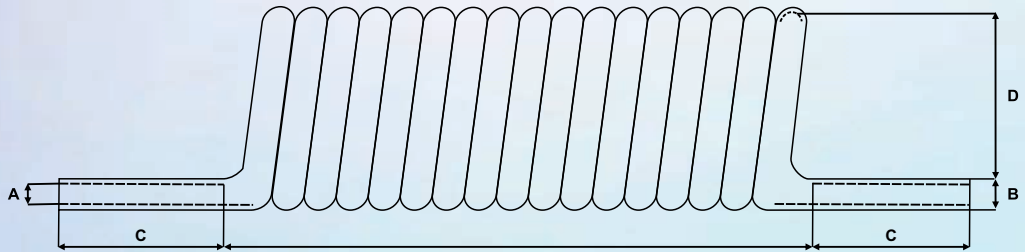
**PHARMA ISOLATOR**

## APPLICATION

- ▲ Ideal for all applications using DI water
- ▲ Laboratory use
- ▲ Pure chemical dispensers
- ▲ Pure air and water systems
- ▲ Medical

## DRAWING

- ▲ A = Tube ID
- ▲ B = Tube OD
- ▲ C = Tail length (Standard tail length is 6")
- ▲ D = Coil ID



## COMPLIANCE & CERTIFICATIONS

- |                       |                  |
|-----------------------|------------------|
| ▲ FDA 21 CFR 177.1550 | ▲ ISO 10993-11   |
| ▲ USP CLASS VI        | ▲ TSE / BSE FREE |
| ▲ Extractable Study   | ▲ ROHS Compliant |
| ▲ BPA free            | ▲ PHTHALATE FREE |



### PTFE Tubing for Corrosive Fluid Transfer Applications

#### CHARACTERISTICS

- ▲ Imatef® PTFE tubing is designed for corrosive fluid transfer applications like solvents, acids, and alkalis.
- ▲ High burst pressure resistance enables it for the SIP process
- ▲ Available with SS 316 L TC fittings for better grip and leak-proof fluid transfer applications
- ▲ Manufactured in an ISO 9001 compliant facility
- ▲ The inner layer has a very low coefficient of friction to ensure smooth flow.
- ▲ Compliant with all regulatory certification requirements

#### COMPLIANCE & CERTIFICATIONS

- |                                      |                     |
|--------------------------------------|---------------------|
| ▲ FDA 21 CFR 177.1550                | ▲ USP <87> in Vitro |
| ▲ Extractable Study (PQRI guideline) | ▲ USP <88> In Vivo  |
| ▲ Nitrosamine Free Declaration       | ▲ Phthalate Free    |
| ▲ ISO 10993-4 Hemocompatibility      | ▲ TSE/BSE Free      |
| ▲ ISO 10993-11 Pyrogen test          | ▲ ROHS Compliant    |

CATALOGUE NO	SIZE					CATALOGUE NO	SIZE				
	ID		OD		WT		ID		OD		WT
	INCH	MM	MM	MM	MM		INCH	MM	MM	OD	MM
ITF-016-032	0.063	1.60	0.126	3.2	0.80	ITF-055-075	0.217	5.50	0.295	7.50	1.00
ITF-020-040	0.079	2.00	0.157	4	1.00	ITF-060-080	0.236	6.00	0.315	8.00	1.00
ITF -030-050	0.118	3.00	0.197	5	1.00	ITF-064-095	0.252	6.40	0.374	9.50	1.55
ITF-032-064	0.126	3.20	0.252	6.4	1.60	ITF-070-090	0.276	7.00	0.354	9.00	1.00
ITF-040-064	0.157	4.00	0.252	6.4	1.20	ITF-079-095	0.311	7.90	0.374	9.50	0.80
ITF-040-060	0.157	4.00	0.236	6	1.00	ITF-080-100	0.315	8.00	0.394	10.00	1.00
ITF-048-064	0.189	4.80	0.252	6.4	0.80	ITF-095-127	0.374	9.50	0.5	12.70	1.60
ITF-048-079	0.189	4.80	0.311	7.9	1.55	ITF-100-120	0.394	10.00	0.472	12.00	1.00
ITF-050-070	0.197	5.00	0.276	7	1.00	ITF-120-140	0.472	12.00	0.551	14.00	1.00

\* Imatef® tubing is not intended for Implant Application.

# Standard Available Sizes for Tubing

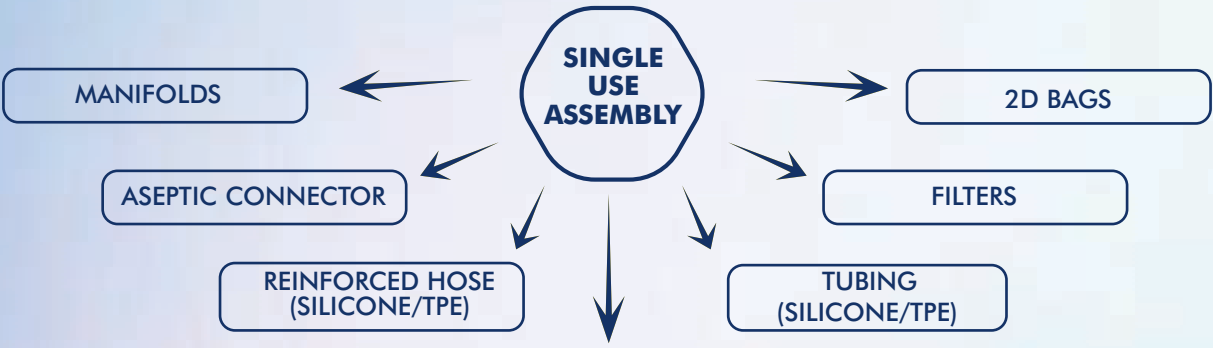
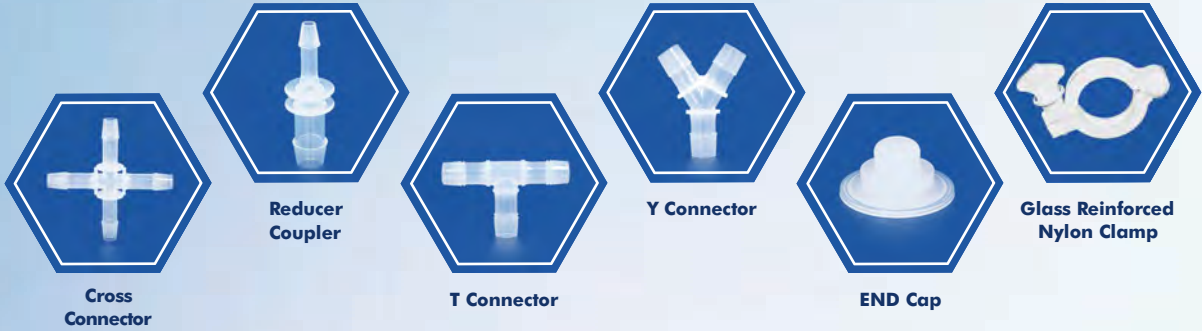


SIZES					TUBING CATALOGUE NUMBERS						
ID		OD		THICKNESS							
INCH	MM	INCH	MM	INCH	Imapure®	Imaflow®	Imaweld®	Imaprene®	Imachemton®	Imapex®	
1/16	1.60	1/8	3.17	1/32	901-203-60	701-203-60	4020-0016-078	8020-0016-078	5020-0016-078	601-203-60	
1/16	1.60	13/64	4.76	1/16	901-113B-60	701-113B-60	4020-0016-158	8020-0016-158	5020-0016-158	601-113B-60	
1/16	1.6	1/4	6.4	3/32	901-203C-60	701-203C-60	4020-0016-240	8020-0016-240	5020-0016-240	601-203-60	
1/32	0.8	5/32	4	1/16	901-203-60	701-203-60	4020-0008-160	8020-0008-160	5020-0008-160	601-203-60	
1/32	0.8	7/32	5.6	3/32	901-249-60	701-249-60	4020-0008-240	8020-0008-240	5020-0008-240	601-249-60	
1/64	0.5	9/64	3.7	1/16	901-247-60	701-247-60	4020-0005-160	8020-0005-160	5020-0005-160	601-247-60	
1/64	0.5	13/64	5.3	3/32	901-248-60	701-248-60	4020-0005-240	8020-0005-240	5020-0005-240	601-248-60	
5/64	2.00	5/32	4.00	3/64	901-114-60	701-114-60	4020-0020-100	8020-0020-100	5020-0020-100	601-114-60	
5/64	2.00	13/64	5.00	1/16	901-115-60	701-115-60	4020-0020-150	8020-0020-150	5020-0020-150	601-115-60	
1/8	3.17	1/4	6.35	1/16	901-204-60	701-204-60	4020-0031-159	8020-0031-159	5020-0031-159	601-204-60	
1/8	3.00	1/4	6.00	1/16	901-117-60	701-117-60	4020-0030-150	8020-0030-150	5020-0030-150	601-117-60	
1/8	3.00	9/32	7.00	5/64	901-118-60	701-118-60	4020-0030-200	8020-0030-200	5020-0030-200	601-118-60	
1/8	3.00	5/16	8.00	2.32	901-205-60	701-205-60	4020-0030-250	8020-0030-250	5020-0030-250	601-205-60	
5/32	4.00	1/4	6.00	3/64	901-119-60	701-119-60	4020-0040-100	8020-0040-100	5020-0040-100	601-119-60	
5/32	4.00	9/32	7.00	1/16	901-120-60	701-120-60	4020-0040-150	8020-0040-150	5020-0040-150	601-120-60	
5/32	4.00	5/16	8.00	5/64	901-121-60	701-121-60	4020-0040-200	8020-0040-200	5020-0040-200	601-121-60	
5/32	4.00	23/64	9.00	3/32	901-206-60	701-206-60	4020-0040-250	8020-0040-250	5020-0040-250	601-206-60	
5/32	4.00	25/64	10.0	1/8	901-174-60	701-174-60	4020-0040-300	8020-0040-300	5020-0040-300	601-174-60	
3/16	4.76	5/16	7.90	1/16	901-122-60	701-122-60	4020-0047-157	8020-0047-157	5020-0047-157	601-122-60	
3/16	4.76	3/8	9.50	3/32	901-123-60	701-123-60	4020-0047-237	8020-0047-237	5020-0047-237	601-123-60	
3/32	2.4	7/32	5.6	1/16	901-250-60	701-250-60	4020-0024-160	8020-0024-160	5020-0024-160	601-250-60	
3/64	1.2	11/64	4.4	1/16	901-203B-60	701-203B-60	4020-0012-160	8020-0012-160	5020-0012-160	601-203-60	
13/64	5.00	5/16	8.00	1/16	901-125-60	701-125-60	4020-0050-150	8020-0050-150	5020-0050-150	601-125-60	
13/64	5.00	23/64	9.00	5/64	901-126-60	701-126-60	4020-0050-200	8020-0050-200	5020-0050-200	601-126-60	
13/64	5.00	25/64	10.0	3/32	901-127-60	701-127-60	4020-0050-250	8020-0050-250	5020-0050-250	601-127-60	
13/64	5.00	7/16	11.0	1/8	901-128-60	701-128-60	4020-0050-300	8020-0050-300	5020-0050-300	601-128-60	
15/64	6.00	5/16	8.00	3/64	901-129-60	701-129-60	4020-0060-100	8020-0060-100	5020-0060-100	601-129-60	
15/64	6.00	23/64	9.00	1/16	901-130-60	701-130-60	4020-0060-150	8020-0060-150	5020-0060-150	601-130-60	
15/64	6.00	25/64	10.0	5/64	901-131-60	701-131-60	4020-0060-200	8020-0060-200	5020-0060-200	601-131-60	
15/64	6.00	7/16	11.0	3/32	901-132-60	701-132-60	4020-0060-250	8020-0060-250	5020-0060-250	601-132-60	
15/64	6.00	15/32	12.0	1/8	901-133-60	701-133-60	4020-0060-300	8020-0060-300	5020-0060-300	601-133-60	
1/4	6.35	3/8	9.50	1/16	901-171-60	701-171-60	4020-0063-157	8020-0063-157	5020-0063-157	601-171-60	
1/4	6.35	7/16	11.11	3/32	901-208-60	701-208-60	4020-0063-238	8020-0063-238	5020-0063-238	601-208-60	
1/4	6.35	1/2	12.70	1/8	901-209-60	701-209-60	4020-0063-317	8020-0063-317	5020-0063-317	601-209-60	
5/16	7.90	1/2	12.70	3/32	901-140B-60	701-140B-60	4020-0079-240	8020-0079-240	5020-0079-240	601-140B-60	
5/16	8.00	7/16	11.0	1/16	901-139-60	701-139-60	4020-0080-150	8020-0080-150	5020-0080-150	601-139-60	
5/16	8.00	15/32	12.0	5/64	901-140-60	701-140-60	4020-0080-200	8020-0080-200	5020-0080-200	601-140-60	
5/16	8.00	35/64	14.0	1/8	901-142-60	701-142-60	4020-0080-300	8020-0080-300	5020-0080-300	601-142-60	
5/16	8.00	5/8	16.0	5/32	901-143-60	701-143-60	4020-0080-400	8020-0080-400	5020-0080-400	601-143-60	
5/16	8	1/2	12.8	3/32	901-140B-60	701-140B-60	4020-0079-240	8020-0079-240	5020-0079-240	601-140-60	
23/64	9.00	19/32	15.0	1/8	901-145-60	701-145-60	4020-0090-300	8020-0090-300	5020-0090-300	601-145-60	
23/64	9.00	5/8	16.0	9/64	901-146-60	701-146-60	4020-0090-350	8020-0090-350	5020-0090-350	601-146-60	
3/8	9.50	1/2	12.70	1/16	901-177B-60	701-177B-60	4020-0095-160	8020-0095-160	5020-0095-160	601-177B-60	
3/8	9.50	9/32	14.28	3/32	901-191-60	701-191-60	4020-0095-239	8020-0095-239	5020-0095-239	601-191-60	
3/8	9.50	5/8	15.87	1/8	901-172-60	701-172-60	4020-0095-318	8020-0095-318	5020-0095-318	601-172-60	
3/8	9.50	3/4	19.05	3/16	901-193-60	701-193-60	4020-0095-477	8020-0095-477	5020-0095-477	601-193-60	
25/64	10.0	35/64	14.0	5/64	901-149-60	701-149-60	4020-0100-200	8020-0100-200	5020-0100-200	601-149-60	
25/64	10.0	5/8	16.0	1/8	901-150-60	701-150-60	4020-0100-300	8020-0100-300	5020-0100-300	601-150-60	
25/64	10.0	45/64	18.0	5/32	901-210-60	701-210-60	4020-0100-400	8020-0100-400	5020-0100-400	601-210-60	
15/32	12.0	5/8	16.0	5/64	901-151-60	701-151-60	4020-0120-200	8020-0120-200	5020-0120-200	601-151-60	
15/32	12.0	45/64	18.0	1/8	901-152-60	701-152-60	4020-0120-300	8020-0120-300	5020-0120-300	601-152-60	
15/32	12.0	25/32	20.0	5/32	901-153-60	701-153-60	4020-0120-400	8020-0120-400	5020-0120-400	601-153-60	
1/2	12.70	11/16	17.46	3/32	901-194-60	701-194-60	4020-0127-238	8020-0127-238	5020-0127-238	601-194-60	
1/2	12.70	3/4	19.05	1/8	901-173-60	701-173-60	4020-0127-317	8020-0127-317	5020-0127-317	601-173-60	
1/2	12.70	7/8	22.22	3/16	901-195-60	701-195-60	4020-0127-476	8020-0127-476	5020-0127-476	601-195-60	
1/2	12.70	1	25.40	1/4	901-196-60	701-196-60	4020-0127-635	8020-0127-635	5020-0127-635	601-196-60	
19/32	15.0	53/64	21.0	1/8	901-211-60	701-211-60	4020-0150-300	8020-0150-300	5020-0150-300	601-211-60	
5/8	15.87	7/8	22.22	1/8	901-197-60	701-197-60	4020-0158-317	8020-0158-317	5020-0158-317	601-197-60	
5/8	15.87	1	25.40	3/16	901-198-60	701-198-60	4020-0158-476	8020-0158-476	5020-0158-476	601-198-60	
5/8	16.00	15/16	24.0	5/32	901-212-60	701-212-60	4020-0160-400	8020-0160-400	5020-0160-400	601-212-60	
3/4	19.00	3/64	25.0	1/8	901-160-60	701-160-60	4020-0190-300	8020-0190-300	5020-0190-300	601-160-60	
3/4	19.00	1-1/16	27.0	5/32	901-213-60	701-213-60	4020-0190-400	8020-0190-400	5020-0190-400	601-213-60	
3/4	19.05	1	25.4	1/8	901-160B-60	701-160B-60	4020-0190-320	8020-0190-320	5020-0190-320	601-160B-60	
3/4	19.05	1-1/8	28.57	3/16	901-199-60	701-199-60	4020-0190-470	8020-0190-470	5020-0190-470	601-199-60	
3/4	19.05	1-1/4	31.75	1/4	901-200-60	701-200-60	4020-0190-640	8020-0190-640	5020-0190-640	601-200-60	
63/64	25.0	1-7/32	31.0	1/8	901-167-60	701-167-60	4020-0250-300	8020-0250-300	5020-0250-300	601-167-60	
63/64	25.0	1-3/8	35.0	13/64	901-188-60	701-188-60	4020-0250-500	8020-0250-500	5020-0250-500	601-188-60	
63/64	25.0	1-29/64	37.0	1/64	901-189-60	701-189-60	4020-0250-600	8020-0250-600	5020-0250-600	601-189-60	
1	25.40	1-1/8	28.75	3/16	901-201-60	701-201-60	4020-0250-170	8020-0250-170	5020-0250-170	601-201-60	
1	25.40	1-1/2	38.10	1/4	901-202-60	701-202-60	4020-0250-640	8020-0250-640	5020-0250-640	601-202-60	
1	25.4	3/8	35	3/16	901-181-60	701-181-60	4020-0254-480	8020-0254-480	5020-0254-480	601-181-60	

Pack size available from min 25 mt. pack.



# Ami's World of Bioprocess Solutions and Customization



## COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.1520
- ▲ USP CLASS 88
- ▲ USP Class 87
- ▲ Manufactured in Cleanroom Class 10000
- ▲ Extractable & Leachable Study Available

## APPLICATION

- ▲ Vaccine and Bio Therapeutic Production
- ▲ Cell Culture and Sampling
- ▲ Aseptic Filling and Filtration
- ▲ Sterile Fluid Management
- ▲ Fermentation and Bio-reactors
- ▲ Single use Chromatography
- ▲ Bio Processes - Upstream & Downstream



# ImaLOK™

## A Solution for Bioprocessing Applications

APPL's **ImaLOK™** sanitary clamp is designed to address the needs of the single-use disposable / biopharma industries. **ImaLOK™** sanitary clamps are manufactured using a glass-reinforced, FDA 21 CFR 177.1500 grade, USP Class VI Nylon 66 and are designed to be used as a component for single-use transfer lines and a wide range of bioprocess systems.

### CHARACTERISTIC

- ▲ We offer multiple options in ImaLOK™. These are offered in a wide range of internal dimensions to meet the process requirements.
- ▲ The manufacturing process is carried out in clean room with caution from raw material to finished product manufactured.

### FEATURES / BENEFITS

- ▲ Biopharmaceutical grade
- ▲ Limited-slip design and coating hinge self-adjusts for balanced contact pressure.
- ▲ Compatible with ASME-BPE and BPSA standard non-metallic and stainless steel ferrule.
- ▲ Excellent acid and alkali resistance.
- ▲ More efficient locking mechanism.
- ▲ Lightweight.
- ▲ Autoclavable and gamma sterilizable.
- ▲ Quick delivery support.

### APPLICATION

- ▲ Single-use systems (SUS)
- ▲ Pharmaceutical manufacturing
- ▲ Vaccine and bio therapeutic production
- ▲ Applications where metal is incompatible

### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21CFR 177.2600
- ▲ USP CLASS VI
- ▲ USP Class 87

### SIZE AVAILABLE

Part No.	Material OF construction	Size (inch)
GNRC-NC-0750	Glass reinforced nylon	1/2" -3/4"
GNRC-NC-1500	Glass reinforced nylon	1" - 1.5"
GNRC-NC-4000	Glass reinforced nylon	4"





# ImaLINK™

## A Solution for Bioprocessing Applications

Ami Polymer Pvt Ltd **ImaLINK™** Manifold is designed to minimize the need for fittings, connections, or assembly, and all leak points and entrapment areas have been eliminated. Single use **ImaLINK™** manifolds are manufactured by molding straight sections of tubing or with connectors such as T's, Y's, X's and T ri-Clamps. Most molded connectors provide a seamless transition for a continuous, unrestricted, leak-proof flow by eliminating barbed fittings.

### CHARACTERISTIC

- Ami polymer delivers multiple options in ImaLINK™ Manifold. These are offered in a wide range of internal dimensions to meet the process requirements. The manufacturing process is carried out in a clean room of ISO Class 7 with cautious control from raw material to finished product.

### FEATURES / BENEFITS

- Biopharmaceutical grade
- Eliminates entrapment, leak points, and pulsation, assembly time.
- Ready-to-install system in sizes 1/16" to 1" in customized lengths.
- Available in multiple configurations and MOC.
- Easy fitting connections.
- Autoclavable and gamma sterilizable
- Quick delivery support.

### APPLICATION

- Single-Use filling assemblies minimize setup, installation, and cleaning time
- Sterile filling
- Peristaltic pumps
- Fermentation and filtration
- Vaccine and biotherapeutic production
- Closed collection systems

### COMPLIANCE & CERTIFICATIONS

- FDA 21CFR 177.2600
- USP CLASS VI
- USP Class 87
- ISO 10993
- USP 381 Elastomeric closure for injection
- EP 3.1.9
- BPOG standardized extractable test

### SIZE AVAILABLE

Tube SIZE (INCH)	Tube SIZE (MM)	Tube SIZE (INCH)	Tube SIZE (MM)	Tube SIZE (INCH)	Tube SIZE (MM)
1/16" x 3/16"	1.6 x 4.7	3/16" x 7/16"	4.7 x 11	1/2" x 5/8"	12.7 x 15.8
1/16" x 1/4"	1.6 x 6.35	1/4" x 7/16"	6.35 x 11	2 1/2" x 3/4"	12.7 x 19
1/16" x 7/16"	1.6 x 11	1/4" x 5/8"	6.35 x 15.8	3/4" x 1-1/4"	19 x 31.75
1/8" x 3/16"	3.17 x 4.7	1/4" x 3/4"	6.35 x 19		
1/8" x 1/4"	3.17 x 6.35	3/8" x 7/16"	9.52 x 11		
1/8" x 5/8"	3.17 x 15.8	3/8" x 5/8"	9.52 x 15.8		
3/16" x 1/4"	4.7 x 6.35	3/8" x 3/4"	9.52 x 19		





# Transfer Bottle Assembly

## A Solution for Bioprocessing Applications

It is designed for efficient aseptic transfer, we offer a wide variety of stopper configurations, containers, and accessories that meet the rigorous standards of the bio-pharmaceutical, laboratory, and life science industries.

### CHARACTERISTICS

- ▲ Stoppers with multiple ports (positions or holes) that allow for easy access to bottle materials without the full removal of the stopper.
- ▲ Innovative design featuring integrated strain relief to help prevent tube kinking.
- ▲ Bottle caps fit most industry bottles.
- ▲ Assembled and packaged in a Class 7 cleanroom.

### COMPLIANCE & CERTIFICATIONS

- |                       |                  |
|-----------------------|------------------|
| ▲ FDA 21 CFR 177.2600 | ▲ Phthalate Free |
| ▲ USP CLASS VI        | ▲ BPA FREE       |
| ▲ TSE/BSE FREE        | ▲ RoHS Compliant |

### APPLICATIONS

- ▲ Sampling
- ▲ Seed culture
- ▲ Media preparation, storage, and transfer
- ▲ General Lab Research





## Bellow Probe Assembly

### A Solution for Bioprocessing Applications

It is designed to address the needs of the single-use disposable and bio-pharmaceutical industries. It offers a wide range of internal dimensions to meet process requirements. The manufacturing process is carried out in a clean room of ISO Class 7, where the process is carefully controlled from the raw material to the finished product.

#### FEATURES / BENEFITS

- ▲ Biopharmaceutical grade
- ▲ Flexible body
- ▲ Easy installation
- ▲ Autoclavable and gamma sterilisable
- ▲ Quick delivery Support

#### COMPLIANCE & CERTIFICATIONS

- |                       |                  |
|-----------------------|------------------|
| ▲ FDA 21 CFR 177.2600 | ▲ Phthalate Free |
| ▲ USP CLASS VI        | ▲ BPA FREE       |
| ▲ TSE/BSE FREE        | ▲ RoHS Compliant |

#### APPLICATIONS

- ▲ Single-Use Systems (SUS)
- ▲ Vaccine and bio-therapeutic production
- ▲ Insertion of pH and DO probes into a single-use bioreactor



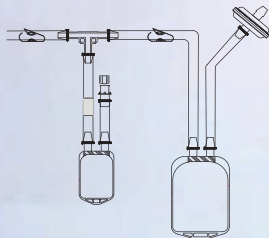
## ImaBag™ / ImaBag-RT™

### Single-Use Bags (2D/ 3D/ Liner/Sampling Bags)

The single-use system is a process equipment solution. Compared with the traditional stainless steel system, it has the advantages of a lower initial cost, no cleaning, and speeding up the development and production progress. At present, it has been widely used in the field of bio-pharmaceuticals, such as vaccines, antibodies, gene and cell therapies, etc., in all processes from cell culture to preparation and filling.

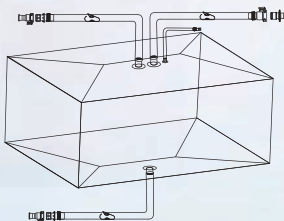
#### SIZE CHART

##### 2D Bags



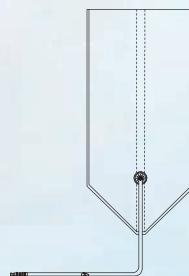
CAPACITY	DIMENSIONS (L X W)
50 ml	157 x 87 mm
100 ml	196 x 101 mm
250 ml	239 x 151 mm
500 ml	280 x 169 mm
1 L	328 x 214 mm
2 L	448 x 220 mm
5 L	511 x 339 mm

##### 3D Bags



CAPACITY	DIMENSIONS (L X W X H)
50 L	450 x 320 x 450 mm
100 L	725 x 525 x 290 mm
200 L	725 x 525 x 570 mm
500 L	1056 x 525 x 570 mm
1000 L	1056 x 725 x 660 mm
1500 L	1056 x 980 x 830 mm
1500 L	1465 x 1110 x 960 mm

##### Liner



CAPACITY	DIMENSIONS (L X W X H)
50 L	300 x 280 x 1000 mm
100 L	410 x 390 x 1100 mm
200 L	470 x 490 x 1200 mm
300 L	500 x 520 x 1500 mm
500 L	650 x 670 x 1500 mm
1000 L	950 x 900 x 2050 mm

\* On demand customization available.



## Mixer Bag

### A Innovative Solution for Bio-pharmaceutical Mixing

It is designed to address the needs of the single-use disposable and bio-pharmaceutical industries. It offers a wide range of internal dimensions to meet process requirements. The manufacturing process is carried out in a clean room of ISO Class 7, where the process is carefully controlled from the raw material to the finished product.

#### FEATURES / BENEFITS

- ▲ Tailored for specific process applications.
- ▲ Equipped with precision impeller for consistent mixing.
- ▲ Built for durability with high burst strength.
- ▲ 100 % integrity confirmed with pressure leak test.
- ▲ Superior protection for product molecules and components.
- ▲ Easy inlet and outlet connections.

#### COMPLIANCE & CERTIFICATIONS

- ▲ ISO 117 37-1
- ▲ USP <88> Biological reactivity tests, In Vivo
- ▲ USP <87> Biological reactivity tests, In Vitro
- ▲ US FDA 21 CFR Part 210.3 (b) (6)
- ▲ 100% Integrity tested
- ▲ USP <661>
- ▲ Extractables
- ▲ USP <85>
- ▲ USP <788>

#### SIZES

- ▲ 50 L
- ▲ 100 L
- ▲ 200L
- ▲ 650 L
- ▲ 1000 L

#### APPLICATIONS

- Ami Mixer bags can be used in Process and transfer of
- ▲ Cell Culture media
  - ▲ Buffers
  - ▲ Process Intermediates
  - ▲ Formulations



# Imafit®

## Platinum Cured Silicone Hose Reinforced with Polyester Braiding

**Imafit®** is platinum cured silicone hose reinforced with polyester braiding. It has excellent flexibility for pressurized fluid transfer application in pharmaceutical and biotech industries. We are catering these products to all pharma and biotech companies in India and Overseas. **Imafit®** hose is manufactured under stringent quality parameters to have greater flexibility and minimum bend radius.

### APPLICATION

- ▲ Pharmaceutical and Biotech Material Transfer
- ▲ Critical Liquid Transfer
- ▲ Load Cell and Cell Cultures
- ▲ Analytical Lab Food and Beverages
- ▲ Biotechnology

### CERTIFICATION

- ▲ Toxikon-based E&L studies available on the inner liner
- ▲ NSF-51 certification on resin liner
- ▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ Conforms to ISO 10993-1
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Animal Origin Certification (free of animal-derived material)
- ▲ USFDA DMF accreditation #26201
- ▲ Complete validation package available upon request.

### KEY FEATURES

- ▲ Excellent flexibility
- ▲ Manufactured from low volatile grade silicone resin
- ▲ Imparts no taste and odor
- ▲ Lot traceable
- ▲ Temp Range :- -55 °C to 220°C
- ▲ Available with SS316 L Tri-clover end Fittings in required length
- ▲ Colored outer layer available
- ▲ Custom color coding available
- ▲ Sterilizable by Autoclave, Ethylene Oxide gas & gamma Radiation

Catalogue No.	Size in MM (ID x OD)	Size in Inch (ID)	*Max Working Pressure (Bar)	*Min Burst Pressure (Bar)	Min Bend Radius (MM)	Vacuum Rating in MM HG
0613FT	6 x 13	¼"	10.0	30	50	NA
0916FT	9 x 16	11/32"	9.0	27	50	NA
1220FT	12 x 20	½"	7.0	21	80	NA
1624FT	16 x 24	5/8"	7.0	21	90	NA
1927FT	19 x 27	¾"	6.0	18	110	NA
2535FT	25 x 35	1"	4.0	12	160	NA
3242FT	32 x 42	1¼"	3.0	9	200	NA
3747FT	37 x 47	1½"	2.5	8	C/P	NA
5062FT	50 x 62	2"	2.0	6	C/P	NA

\* Tested at Standard Temp Condition, CP- Consult Plant



## Imafit<sup>®</sup> DB - Silicone Platinum Cured Double Braided Polyester Hose

### KEY FEATURES

- ▲ Excellent Flexibility
- ▲ Manufactured from low volatile grade silicone resin
- ▲ Available with SS 316L tri-clovers end fittings having RA Value < 0.5 at bore
- ▲ Colored outer layer and custom color coding available on request
- ▲ Sterilizable by Autoclave, Ethylene oxide gas and Gamma Radiation.

### Technical Specification

- ▲ Temperature -55° to 220°C.
- ▲ Double braiding of polyester yarn
- ▲ Milky white color outer layer appearance
- ▲ Inner bore translucent and smooth

### Standard Available Size

Catalogue No.	I.D		O.D		Working Pressure (@23°C)	Burst Pressure (@23°C)	Bend Radius
	(in.)	(mm)	(in.)	(mm)	Bar	Bar	(MM.)
1270-2260-FT-DB	0.500	12.07	0.890	22.60	22.60	55.05	70
1600-2700-FT-DB	0.629	16.00	1.062	27.00	12.53	50.15	80
1905-2997-FT-DB	0.750	19.05	1.180	29.97	12.12	48.50	85
2540-3632-FT-DB	1.000	25.40	1.430	36.32	8.77	35.08	110
3200-4400-FT-DB	1.259	32.00	1.732	44.00	7.5	30.00	200



# Imavac®

## Platinum Cured Silicone Hose Reinforced with SS 316L Helical Wire

**Imavac®** is platinum cured silicone hose reinforced with SS 316L helical wire. It has better transparency to visualize flow and kink resistance. **Imavac®** is designed for material transfer application under high vacuum in pharmaceutical industries. The product is more superior compare to **Imafit®** - polyester braided hose in high pressure and high vacuum rating applications. It is also used for antistatic application.

### APPLICATION

- ▲ Pharmaceutical processing
- ▲ Powder and fluid transfer
- ▲ High Vacuum applications
- ▲ Food Processing
- ▲ Load cell application
- ▲ Bulk transfer
- ▲ Biotechnology

### CERTIFICATION

- ▲ Toxikon-based E&L studies available on the inner liner
- ▲ NSF-51 certification on resin liner
- ▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ Conforms to ISO 10993-1
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Animal Origin Certification (free of animal-derived material)
- ▲ USFDA DMF accreditation #26201
- ▲ Complete validation package available upon request.

### KEY FEATURES

- ▲ High burst pressure resistance compare to Imafit®
- ▲ Designed for high vacuum rating applications
- ▲ Having antistatic properties to dissipate static electrical charge makes it suitable for highly volatile flammable fluid transfer
- ▲ Imparts no taste and odor
- ▲ Lot traceable
- ▲ Temp Range :- -55 °C to 220°C
- ▲ Available with SS316 L Tri-clover end
- ▲ Sterilizable by Autoclave, Ethylene Oxide gas & gamma radiation

Catalogue No.	Size in MM (ID x OD)	Size in Inch (ID)	*Max Working Pressure (Bar)	*Min Burst Pressure (Bar)	Min Bend Radius (MM)	Vacuum Rating in MM HG
0613VC	6 x 13	¼"	12.0	48	50	760
0916VC	9 x 16	11/32"	11.5	48	60	760
1220VC	12 x 20	½"	10.5	45	70	760
1624VC	16 x 24	5/8"	10.0	35	80	760
1927VC	19 x 27	¾"	8.5	30	90	760
2535VC	25 x 35	1"	8.5	30	125	760
3242VC	32 x 42	1¼"	8.0	27.5	140	600
3747VC	37 x 47	1½"	7.5	25	170	600
5062VC	50 x 62	2"	6.0	22.5	240	550
6476VC	64 x 76	2½"	4.0	20	C/P	500
7587VC	75 x 87	3"	3.0	15	C/P	400
100112VC	100 x 112	4"	2.0	10	C/P	400

\* Tested at Standard Temp Condition, CP- Consult Plant



## Imavac-C™

### Platinum Cured Inner smooth bore Silicone Hose Reinforced with SS 316 Helical Wire

#### CHARACTERISTICS

Imavac-C™ is inner Smooth Bore and outer convoluted platinum-cured silicone hose reinforced with SS 316L helical wire. It has light weight, better transparency to visualize flow, and more kink resistance. Imavac-C is designed for material transfer applications under high vacuum in the pharmaceutical industry. The product is more superior compare to Imavac™ in high-kink resistance and high vacuum rating applications. It is also used for antistatic applications.

#### APPLICATION

- ▲ Pharmaceutical processing
- ▲ Powder and fluid transfer
- ▲ High Vacuum applications
- ▲ Food Processing
- ▲ Load cell application
- ▲ Bulk transfer
- ▲ Biotechnology

#### CERTIFICATION

- ▲ Toxikon-based E&L studies available on the inner liner
- ▲ NSF-51 certification on resin liner
- ▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ Conforms to ISO 10993-1
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Animal Origin Certification (free of animal-derived material)
- ▲ USFDA DMF accreditation #26201
- ▲ Complete validation package available upon request.

#### KEY FEATURES

- ▲ High kink resistance and bend radius as compared to Imavac®
- ▲ Designed for high vacuum rating applications
- ▲ Having antistatic properties to dissipate static electrical charge makes it suitable for highly volatile flammable fluid transfer.
- ▲ Lot traceable
- ▲ Temp Range: - 55 °C to 220 °C
- ▲ Available with SS316 L Tri-clover fittings
- ▲ Sterilizable by autoclave, ethylene oxide gas, and gamma radiation

#### Size Chart

CATALOGUE NO.	SIZE IN MM (ID x THICKNESS)	SIZE IN INCH (ID)	MAX WORKING PRESSURE	MIN BURST PRESSURE	MIN BURST PRESSURE	VACUUM Hg
			IN (Bar) at 27 °C	IN (Bar) at 27 °C	IN (Bar) at 27 °C	at 70 °F/27 °C IN (MM)
19 2.5VC - C	19 x 2.5	¾"	6.5	19.5	65	560
25 3VC - C	25 x 3	1"	6.5	19.5	90	560
32 3VC - C	32 x 3	1¼"	6	18	101.6	450
37 3VC - C	38 x 3	1½"	5.5	16.5	105	450
50 3.5VC - C	50 x 3.5	2"	4	12	155	350
6476VC - C	64 x 3.5	2½"	3	9	C/P	300
75 3.5VC - C	75 x 3.5	3"	3	9	C/P	250
100 4VC - C	100 x 4	4"	2	6	C/P	250





## Imavacfit®

### Platinum Cured Silicone Hose Reinforced with Polyester Braiding and SS 316L Helical Wire

**Imavacfit®** is platinum cured silicone hose reinforced with SS 316L helical wire and polyester braiding having better flexibility with high pressure resistance. **Imavacfit®** is having high burst pressure rating along with high vacuum resistance compare to **Imovac®**. The product is suitable in pressurized fluid transfer application.

#### APPLICATION

- ▲ Pharmaceutical processing
- ▲ Powder and fluid transfer
- ▲ High Vacuum applications
- ▲ Food Processing
- ▲ Load cell application
- ▲ Bulk transfer
- ▲ Biotechnology
- ▲ Fermentations and Bioreactors

#### CERTIFICATION

- ▲ Toxikon-based E&L studies available on the inner liner
- ▲ NSF-51 certification on resin liner
- ▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ Conforms to ISO 10993-1
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Animal Origin Certification (free of animal-derived material)
- ▲ USFDA DMF accreditation #26201
- ▲ Complete validation package available upon request.

#### KEY FEATURES

- ▲ Having high burst pressure resistance compared to Imafit® and Imovac®
- ▲ Designed for high vacuum rating applications
- ▲ Having antistatic properties to dissipate static electrical charge makes it suitable for highly volatile flammable fluid transfer.
- ▲ Imparts no taste and odor
- ▲ Lot traceable
- ▲ Temp Range: - 55 °C to 220 °C
- ▲ Available with SS316 L Tri-clover fittings
- ▲ Sterilizable by autoclave, ethylene oxide gas, and gamma radiation

Catalogue No.	Size in MM (ID x OD)	Size in Inch (ID)	*Max Working Pressure (Bar)	*Min Burst Pressure (Bar)	Min Bend Radius (MM)	Vacuum Rating in MM HG
0613VF	6 x 13	¼"	12.5	49.0	60	760
0916VF	9 x 16	11/32"	12.5	49.0	70	760
1220VF	12 x 20	½"	11.5	45.0	70	760
1624VF	16 x 24	5/8"	11.0	36.0	85	760
1927VF	19 x 27	¾"	10.0	34.5	95	760
2535VF	25 x 35	1"	9.5	34.5	140	760
3242VF	32 x 42	1¼"	8.5	28.0	150	500
3747VF	37 x 47	1½"	8.0	30	175	500
5062VF	50 x 62	2"	6.5	25	245	400
6476VF	64 x 76	2½"	4.1	20.5	C/P	500

\* Tested at Standard Temp Condition, CP- Consult Plant



# Imawrap<sup>®</sup>

## Platinum Cured Silicone Mandrel Wrapped 4 Plies Fabric with SS Helical Wire Reinforced Hose

**Imawrap<sup>®</sup>** is platinum cured silicone hose reinforced with SS 316L helical wire and 4 Plies Mandrel Wrapped Fabric Reinforced Hose. **Imawrap<sup>®</sup>** has multiple layers of high quality polyester fabric to enhance burst pressure rating. The hose is suitable for high pressurized fluid transfer applications in Biotech, Pharma, Food & Cosmetics processes.

APPLICATION	CERTIFICATION	KEY FEATURES
<ul style="list-style-type: none"> <li>▲ Pharmaceutical Processing</li> <li>▲ Food Processing</li> <li>▲ Load Cell Application</li> <li>▲ CIP, WFI Transfer Application</li> <li>▲ Bulk Powder Transfer</li> <li>▲ Fermentations and Bioreactors</li> <li>▲ High Pressurized Steam</li> <li>▲ Transfer Application</li> </ul>	<ul style="list-style-type: none"> <li>▲ Toxikon-based E&amp;L studies available on the inner liner</li> <li>▲ NSF-51 certification on resin liner</li> <li>▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard</li> <li>▲ Conforms to USP Class VI</li> <li>▲ Conforms to ISO 10993-1</li> <li>▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification</li> <li>▲ Animal Origin Certification (free of animal-derived material)</li> <li>▲ USFDA DMF accreditation #26201</li> <li>▲ Complete validation package available upon request.</li> </ul>	<ul style="list-style-type: none"> <li>▲ Having high pressure rating ensures safe material transfer handling process</li> <li>▲ Designed for high vacuum rating applications</li> <li>▲ Excellent flexibility &amp; kink resistance</li> <li>▲ Imparts no taste and odor</li> <li>▲ Lot traceable</li> <li>▲ Temp Range: -55°C to 220°C</li> <li>▲ Available with SS316 L Tri-clover end</li> <li>▲ Serializable by Autoclave, Ethyleneoxide gas &amp; gamma Radiation</li> </ul>

Catalogue No.	Size in MM (ID x OD)	Size in Inch (ID)	*Max Working Pressure (Bar)	*Min Burst Pressure (Bar)	Min Bend Radius (MM)	Vacuum Rating in MM HG
0613WP	6 x 13	1/4"	18.5	38	60	760
0916WP	9 x 16	11/32"	18.0	38	70	760
1220WP	12 x 20	1/2"	16.0	34	80	760
1624WP	16 x 24	5/8"	14.0	34	90	760
1927WP	19 x 27	3/4"	13.0	34	100	760
2535WP	25 x 35	1"	10.5	32	120	760
3242WP	32 x 42	1 1/4"	10.0	32	180	500
3747WP	37 x 47	1 1/2"	9.5	30	220	400
5062WP	50 x 62	2"	8.0	24	300	300
6476WP	64 x 76	2 1/2"	6.5	18	350	C/P
7587WP	75 x 87	3"	5.0	15	C/P	C/P
100122WP	100 x 112	4"	5.0	15	C/P	C/P

\* Tested at Standard Temp Condition, CP- Consult Plant



## Imawrap-C™

### Platinum Cured Silicone Hose Reinforced with 4 Ply of Polyester Fabric and SS 316 Helical Wire

#### CHARACTERISTICS

Imawrap-C™ is Inner Smoothbore Platinum-cured Silicone hose reinforced with SS 316L Helical wire and 4 layers of polyester fabric wrapping and Silicone Outer Convuluted Cover. Imawrap-C™ is having multiple layers of high quality polyester fabric to enhance burst Pressure rating. The product is suitable for high Kink Resistance & High pressurized Steam transfer application in pharmaceutical and biotech Industries.

#### APPLICATION

- ▲ Pharmaceutical processing
- ▲ Food processing
- ▲ Load cell application
- ▲ CIP, WFI transfer application
- ▲ Bulk powder transfer
- ▲ Cosmetic and such as ultrapure water transfer.
- ▲ High pressurized Steam transfer application

#### CERTIFICATION

- ▲ Toxikon-based E&L studies available on the inner liner
- ▲ NSF-51 certification on resin liner
- ▲ Conforms to the US FDA 21 CFR 177.2600 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ Conforms to ISO 10993-1
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Animal Origin Certification (free of animal-derived material)
- ▲ USFDA DMF accreditation #26201
- ▲ Complete validation package available upon request.

#### KEY FEATURES

- ▲ Having high pressure rating ensures safe material transfer handling process
- ▲ Designed for high vacuum rating applications
- ▲ Excellent flexibility & kink resistance
- ▲ Lot traceable
- ▲ Temp Range: - 55°C to 220°C
- ▲ Available with SS316 L Tri-clover end
- ▲ Sterilizable by Autoclave, CIP & SIP Process Ethylene oxide gas & Gamma radiation

#### Size Chart

CATALOGUE NO.	SIZE IN MM (ID x OD)	SIZE IN INCH (ID)	MAX WORKING PRESSURE	MIN BURST PRESSURE	MIN BEND RADIUS IN (MM)	VACUUM Hg
			in (Bar) at 27°C	IN (Bar) at 27°C		at 70°F/27°C IN (MM)
1222WP	12 x 22	½"	16	34	40	FULL
1628WP	16 x 28	5/8"	14	34	50	FULL
1930WP	19 x 30	¾"	13	34	60	FULL
2538WP	25 x 38	1"	10.5	32	90	FULL
3246WP	32 x 46	1¼"	10	32	90	500
3852WP	38 x 52	1½"	9.5	30	110	400
5064WP	50 x 64	2"	8	30	C/P	300
6478WP	64 x 78	2½"	6.5	25	C/P	C/P
7590WP	75 x 90	3"	5	20	C/P	C/P



## PTFE Lined Hose with SS 304 Braiding Having Outermost Platinum Cured Silicone Cover

**Imaflexxie®** is PTFE tubing covered with SS 304 braid reinforcement having outer layer of platinum grade silicone. **Imaflexxie®** is having capacity to withstand high pressure along with greater chemical resistance. The product is having ultra smooth bore which enhances superior flow properties and least adhesion to particulates. The outer layer of silicone cover acts as insulation to high temperature and keeps outer surfaces dust free.

### APPLICATION

- ▲ Pharmaceutical Processing
- ▲ Food Processing
- ▲ High Pressure Fluid Transfer
- ▲ High Temp. Fluid Transfer
- ▲ Cosmetic Industries

### CERTIFICATION

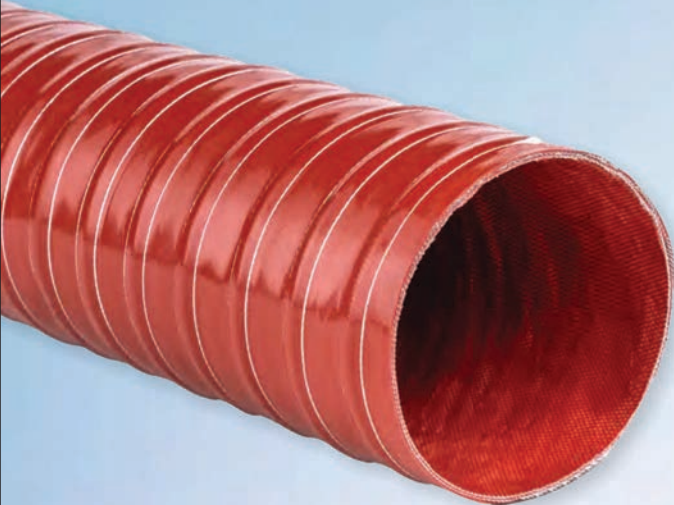
- ▲ E&L studies available on the inner liner
- ▲ Conforms to the US FDA 21 CFR 177.1550 Food Grade Standard
- ▲ Conforms to USP Class VI
- ▲ RoHS, free of phthalate / Bisphenol / Volatile Plasticizer, TSE/BSE Certification
- ▲ Complete validation package available upon request.

### KEY FEATURES

- ▲ Excellent Chemical Resistance
- ▲ Permits easy cleaning
- ▲ Smooth silicone cover provides safety to operator while handling high temperature material. Prevents operator from injury due to "Frayed" SS Braids.
- ▲ Lot traceable
- ▲ Temperature upto 230° C
- ▲ Available with SS316 L Tri-clover end
- ▲ Sterilizable by Autoclave

Catalogue No.	Size in MM (ID x OD)	Size in Inch (ID)	*Max Working Pressure (Bar)	*Min Burst Pressure (Bar)	Min Bend Radius (MM)	Vacuum Rating in MM HG
0613FX	6 x 13	1/4"	20	60	80	NA
0916FX	9 x 16	11/32"	18	54	130	NA
1220FX	12 x 20	1/2"	15	45	170	NA
1624FX	16 x 24	5/8"	14	42	200	NA
1927FX	19 x 27	3/4"	12	36	220	NA
2535FX	25 x 35	1"	12	36	350	NA
3242FX	32 x 42	1 1/4"	10	30	400	NA
3747FX	37 x 47	1 1/2"	10	30	CP	NA
5062FX	50 x 62	2"	8	24	CP	NA

\* Tested at Standard Temp Condition, CP- Consult Plant



## Silicone Coated Glass Fabric Reinforced Duct Hose

### CHARACTERISTICS

Fiberglass fabric wrapped with silicone rubber coating and SS helical wire wined and covered with two side silicone rubber coated with fiberglass fabric wrapped over yarn is applied.

#### APPLICATION

- ▲ For the extraction of hot air from ceramic kilns.
- ▲ Suitable for its use in heating airplane or helicopter cockpits, ventilation, and climate control in any kind of vehicle. Hot air oven exhaust.

#### CERTIFICATION

- ▲ Conforms to USFDA 21 CFR 177.2600
- ▲ EU Directive 2015/863

#### KEY FEATURES

- ▲ It is suitable for a variety of gases including hot air and fume.
- ▲ Service Temperature: +70°C to +300°C.
- ▲ High-quality fiberglass cloth as the raw material with silicone coating on both sides.
- ▲ Spiral steel wire inside the hose for added support.
- ▲ Flexible air duct hose with a narrow pitch for flexible venting.
- ▲ Small bending radius, highly flexible, and kink-proof.
- ▲ Can be bent up to 360°.
- ▲ Resistant to oils, solvents, ozone, water, and fungus.

#### AVAILABLE COLORS

- ▲ Red
- ▲ White
- ▲ Transparent

### Size Chart

CATALOGUE NO.	SIZE IN MM (ID x OD)	SIZE IN INCH (ID)	MAX WORKING PRESSURE	MIN BURST PRESSURE	MIN BEND RADIUS IN (MM)	VACUUM Hg
			in (Bar) at 27°C	IN (Bar) at 27°C		at 70°F/27°C IN (MM)
32 2.5DT	32 X 2.5	1.25"	2.6	400	64	10
38 2.5DT	38 X 2.5	1.5"	2.6	400	64	10
51 2.5DT	51 X 2.5	2"	2.5	350	84	10
63 2.5DT	63 X 2.5	2.5"	2.3	300	102	10
75 2.5DT	75 X 2.5	3"	2.1	270	121	10
89 2.5DT	89 X 2.5	3.5"	2	250	141	5
100 2.5DT	100 X 2.5	4"	1.9	250	160	5
127 3DT	127 X 3	5"	1.5	170	199	5
150 3DT	150 X 3	6"	1.3	125	237	5



# Imaweld® TPE Braided Tubing

## A Solution for Bioprocessing Applications

Imaweld® Braided Tubing is an ultra-flexible, high-purity tubing developed for use in applications where a thermoplastic tube is desired, but the pressure requirements exceed those allowable by a non-reinforced thermoplastic material. Imaweld® Braided Tubing is manufactured and packed in clean room of ISO Class 7 with our Imaweld® formulation, Animal derived component free (ADCF) resin and reinforced with polyester braid.

### CHARACTERISTICS

We offer multiple braided tubing options of thermoplastic elastomers. These are offered in a wide range of internal and outer diameters to meet the process requirements. The manufacturing process is carried out in clean room with cautiously controlled from raw material to finished product manufactured.

#### FEATURES/BENEFITS

- ▲ Biopharmaceutical grade
- ▲ Higher burst pressure compared to non-braided tubing.
- ▲ Ultra flexible, improved bend radius over non-braided tubing.
- ▲ Autoclavable and gamma sterilizable.
- ▲ Temperature range -40°C to 135°C.
- ▲ Kink resistant.
- ▲ Excellent acid and alkali resistance.
- ▲ BPOG Extractable study report available.
- ▲ Quick Delivery Support.
- ▲ Available with sanitary Tri-Clover fitting

#### COMPLIANCE & CERTIFICATIONS

- ▲ ISO 10993-5 (Cytotoxicity, in vitro)
- ▲ ISO 10993-3 (Geno toxicity)
- ▲ ISO 10993-4 (Hemolysis)
- ▲ ISO 10993-11 (Systemic toxicity, in vivo)
- ▲ USP Class VI
- ▲ USP Class 87
- ▲ FDA 21 CFR 177.2600
- ▲ Phthalate free
- ▲ ROHS Compliant
- ▲ Extractable & Leachable Study

### Size Chart

Catalogue No.	ID in Inch (mm)	OD in Inch (mm)	Working Pressure (in Bar)	Minimum bend radius (in mm)	Coil length (in feet)
06-13-IWB	0.237(6)	0.512(13)	7.58	38	25
09-16-IWB	0.354(9)	0.63(16)	5.50	63.5	25
12-20-IWB	0.472(12)	0.787(20)	8.96	76	25
16-24-IWB	0.629(16)	0.944(24)	7.58	100	15
19-29-IWB	0.748(19)	1.106(29)	7.58	140	15



# Tri-Clover Fittings

- ▲ SS 316L Tri-Clovers designed in latest CNC, VMC machine.
- ▲ Available with surface roughness average value  $\leq 0.5$  at bore.
- ▲ Low coefficient of friction prevents particle entrapment.
- ▲ Available sizes of T/C clamp.
- ▲ Laser printing for lot identification.

- ▲ Hydro Tested
- ▲ Air Tested
- ▲ Vacuum Tested

Leak Proof Tri-Clover Fittings

TC OD SIZE	SUITABILITY (SIZE OF HOSES IN INCH)
25 MM	1/4" , 11/32" , 1/2" , 5/8" , 3/4"
34 MM	1/4" , 11/32" , 1/2" , 5/8" , 3/4"
50.5 MM	1" & 1.5"
64 MM	2"
77.5 MM	2.5"
91 MM	3"
118 MM	4"

## SILICONE MOLDED MANDRILL BUILT HOSE:

- ▲ Variety of silicone hoses available for pharma, food, beverages & biotech application
- ▲ Having smooth inner layer due to excellent surface on mandrill
- ▲ Customized length available with sharp bend angle
- ▲ Applicable for coolant hose, radiator hose
- ▲ High mechanical properties for durable performance



**ELBOW**



**FLANGE**



**REUSABLE TC**



**CAMLOCK**



**TRI-CLOVER**



**BSP THREAD**



**QUICK RELEASE COUPLING**

## Value Added to Silicone Hose

- ▲ **Color Coded Hose:**  
Silicone hose like **Imafit®** is available with variety of color lining on outermost surface for identification.
- ▲ **Laser Printing on Tri-Clovers for Lot Identification:**  
Customized printing can be done like name of fluid, lot no., equipment no. can be printed on Tri-Clovers
- ▲ **Colored Outer Layered Hose:**  
Silicone hose outermost layer can be color coded for identification purpose.
- ▲ **Sandwich Printing Technology:**  
Fine layer of platinum silicone is applied over printed hose. It is permanent method of printing which avoids direct contact of ink.
- ▲ **Silicone Bend Hose:**
- ▲ **Silicone hose Available with Outer SS 304 covering**
- ▲ **Double polyester braided silicone Hose for extra reinforcement**







# Imaseal®

## Silicone Inflatable Seals & Gaskets

**Imaseal®** is made from advance grade silicone rubber which conforms to FDA 21 CFR 177.2600 for food grade criteria suitable for various sealing applications. These inflatable seals starts inflation range from 5mm to 20mm when 2-3 BAR pressure is applied after installation in door. **Available with Static Dissipative Formulation (10<sup>7</sup> to 10<sup>9</sup> Ω-cm).**

### CERTIFICATION

- ▲ Food Grade Certificate (Conforms to FDA 21 CFR)
- ▲ Laboratory Test Report
- ▲ TSE/BSE Free Certificate
- ▲ Phthalate Free Certificate

### APPLICATION

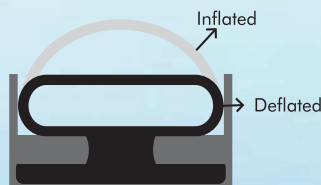
- ▲ Fluid Bed Dryers/Processors/Coaters
- ▲ Autoclaves, Sterilizers
- ▲ Isolators, Glove Box
- ▲ Furnaces
- ▲ Rapid Mixer Granulators
- ▲ Nuclear Door Seals
- ▲ Robotics and Fluid Sealing
- ▲ Airlock Door Seals
- ▲ Powder and Bulk Solid Handling Machineries
- ▲ Electronic/Wafer Semiconductor Processing

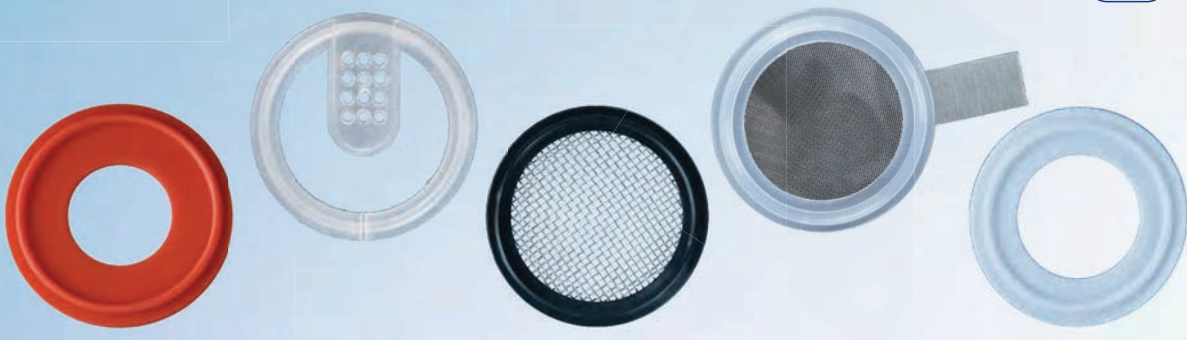
### APPLICABLE INDUSTRIES

- ▲ Pharmaceuticals
- ▲ Biotech
- ▲ Food Process
- ▲ Engineering
- ▲ Defence
- ▲ Aerospace

### SPECIALITY

- ▲ Fastest Delivery
- ▲ Customization
- ▲ Diameter Range starts from 100mm
- ▲ Ultimate Service





# Imaclamp®

## Tri-Clover Gaskets (Silicone/FKM/EPDM/PTFE)

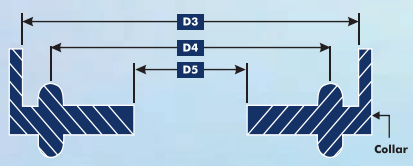
### CHARACTERISTICS

- ▲ Made from platinum cured silicone resin, FKM and EPDM.
- ▲ Conforms to FDA 21 CFR.177.2600.
- ▲ Conforms to USP Class VI requirements.
- ▲ Animal derived ingredient free.
- ▲ **Imaclamp®** is available with collar for better grip and also without collar.
- ▲ Available in red/orange/white and transparent colors.

- TYPES**
- ▲ Standard Tri-Clover Gaskets
  - ▲ Tri-Clover Gasket with SS Mesh
  - ▲ PTFE Enveloped Gaskets
  - ▲ Sensor Tri-Clover Gaskets
  - ▲ Validation Tri-Clover Gaskets

### STANDARD SIZE

NORMAL SIZE	D3	D4	D5
1/2"	34	27.5	10.9
1/2" (Mini)	22	17	9.5
3/4"	34	27.5	15.4
3/4" (Mini)	22	17	15.4
1"	50.5	43.5	22.8
1 1/2"	50.5	43.5	35.8
2"	64	56.5	48.8
2 1/2"	77.5	70.5	60.5
3"	91	83.5	73.1
4"	118	110	96





## Extruded Profile

**Silicone/FKM/EPDM**

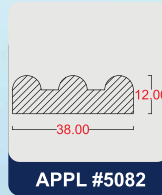
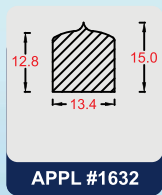
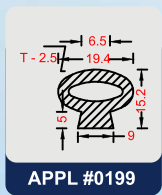
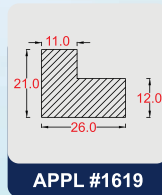
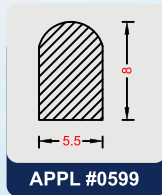
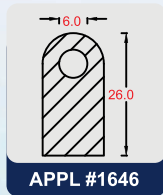
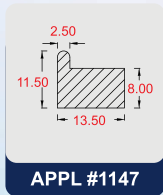
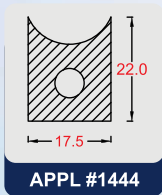
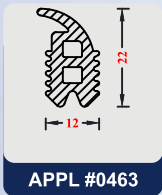
**"We can also make the extruded door gaskets as per customers requirements"**

APPL offers a wide range of silicone extruded door gaskets in more than 1000 different shapes and designs. These extruded door gaskets (autoclave) are made from food-pharma grade pure silicone rubber, which can easily withstand a temperature range of -80°C to +250°C.

APPL's extruded gaskets are available in square, round, rectangular and different geometries of cross sections. These gaskets are available in red, white, orange, transparent, or any color as per the customer's requirement. We also undertake small and bulk orders for these gaskets, ranging from 25 mtrs to 25000 mtrs. These extruded gaskets are manufactured from fully automatic microwave continuous curing system, which ensures accurate dimensional properties, glossy surface finishes and aesthetically beautiful colors.

### OUR EXTRUDED PROFILE/GASKETS USE IN

- ▲ Clean Room Doors
- ▲ Telecom Shelters
- ▲ Bakery Ovens
- ▲ Freeze Doors
- ▲ Air Tight Door Seal Application
- ▲ Pharmaceuticals Processing Machine's Door
- ▲ Autoclaves, Isolators and Dry Heat Sterilizers





## Metal Reinforced Extruded Profiles

### Silicone Metal Reinforced Extruded Profiles

We are specialised in high-quality, custom-made metal reinforced Silicone profiles, which conform to all the main pharmaceutical, medical & food grade standards demanded in the global sector.

In addition to custom-made profiles, we also have several standard profiles that customers are free to utilise in their different products/projects. Our metal reinforced Silicone profiles are used in a wide range of applications ranging from windows, door systems, ceilings, floors and many more.

These profiles are available in either continuous metres or as complete vulcanized frames and rings. These profiles are not only quick and easy to install, but they are also safe and reliable. The metal reinforcement inside the profile is a reliable way of fixing a profile to an end product without the need for tape, adhesive or a separate fixing plate or profile.

#### CHARACTERISTICS

- ▲ Manufactured and packaged in dust free environment of facility audited by **TUV Nord**.
- ▲ Temperature resistance -80°C to +230°C.
- ▲ Available with SS 316 & SS 316L
- ▲ Available in custom size & design
- ▲ EPDM has excellent resistance to weather

#### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.2600
- ▲ BPA free
- ▲ ROHS Compliant
- ▲ PHTHALATE FREE
- ▲ TSE / BSE FREE

Send us mail for more extruded profile design and detail at [info@amipolymer.com](mailto:info@amipolymer.com)



## Self Adhesive Profiles

**Silicone/EPDM/Nitrile/Neoprene**

Self adhesive strip plays a crucial part in sealing and spacing throughout a multitude of different industrial sectors. Strips that are manufactured from EPDM make ideal seals against any ingress of water or air. Self adhesive strip have a closed cell structure and therefore don't allow any liquid, gases or air to pass through them, creating a perfect airtight seal on you products. The compression of the EPDM base material allows for uneven surfaces to be securely sealed once clamped down onto. EPDM has excellent resistance to UV and ozone and therefore is widely used in external applications when parts will be subject to weathering. EPDM is a relatively cheap sponge material choice making it a cost effective solution to most sealing application.

### **ADVANTAGE OF EPDM SELF ADHESIVE STRIP**

Easy to install, just peel off the self adhesive backing. The adhesive backing tape used is not fully resistance to water, therefore where there is a large amount of moisture or water present; it is advisable to use plain expanded EPDM and a good conduct adhesive. EPDM provide excellent resistance against oil, acid, alkalis and has good weathering against heat and ozone.



## Cords, Strips & Gaskets

**Silicone/EPDM/FKM/Nitrile/Neoprene**

**APPL** offers a wide range of cords in silicone rubber ranging from 0.5 mm to 50 mm in square and round sections. These cords are manufactured by step molding process as well as from microwave continuous curing system depending upon the customers requirements. Both of these processes are well advanced and technologically innovate in which, the accurate dimensions, excellent finish and consistent physical properties are maintained throughout the length.



## O-Rings

**(Silicone/FKM/EPDM/Neoprene/Nitrile)**

APPL offers its wide range of O-Rings from 1.0 mm ID to 600 mm ID from its 5000 single piece moulds. APPL's O-Rings are manufactured on a hydraulic press with tightly controlled temperature, pressure and time which ensures accurate dimensions, glossy finish and invisible flash line, properly post cured and absolutely defect free particles. These O-Rings are also manufactured as per the dimensional tolerance specified by the customers and available from Nitrile, Neoprene, Silicone, EPDM, NBR, and FKM or in any other rubber as per customer's specification.

### APPLICATION

- ▲ Filter Housings
- ▲ Membrane Filter Holder
- ▲ Heat Exchangers
- ▲ RMG Discharge Port
- ▲ Pneumatic Cylinders
- ▲ Spray Guns
- ▲ Other Sealing Applications

## FEP Encapsulated O-Rings

**(Silicone/FKM/EPDM/Neoprene/Nitrile)**

APPL's Silicone, FKM and EPDM Encapsulated O-Rings with FEP encapsulation are designed to address the growing problem of sealing in the most hostile chemical and temperature environments. It combines the best qualities of FEP material on the outside with its chemical inertness and an elastomer on the inside for resilience. This unique combination forms a highly effective, long lasting seal for the most demanding applications. This O-Rings are comprised of FEP over Silicone, FKM or EPDM and can be used in temperatures from -75°F to +400°F (-60°C to +205°C) depending upon the choice of elastomer core.

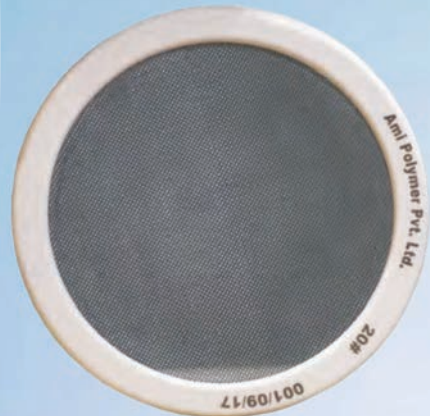
Why are Encapsulated O-Rings needed?

There are certain applications which prohibit the use of conventional rubber O-Ring seals. The use of hostile chemicals or extreme temperature (both high and low) during various processes can make effective sealing very difficult. The main advantage encapsulated O-Rings have over solid P.T.F.E. is that it has the chemical inertness whilst with its energising core, the O-Ring returns to its original form.

### APPLICATION

- ▲ Agitated Natsch Filter Dryer (ANFD)
- ▲ Reactors
- ▲ Solvent Container Lid
- ▲ Centrifuge Lid





## Silicone Molded Sifter Sieves

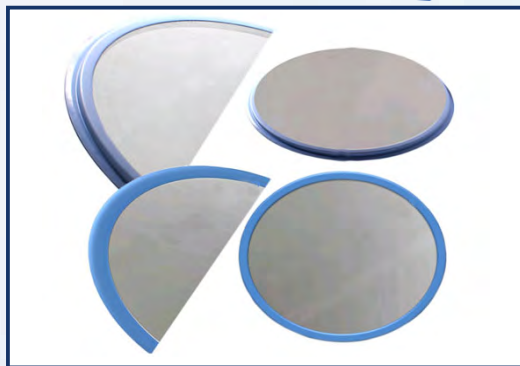
A sieve or sifter, is a device for separating wanted elements from unwanted material or for characterizing the particle size distribution of a sample, typically using a woven screen such as a mesh.

Sifting is mainly used in two areas, check screening of raw material to remove extraneous material and sizing to sort, segregate or control the particle size distribution of powders and granules. Sifting is mainly achieved by used of vibratory, rotary and centrifugal screeners.

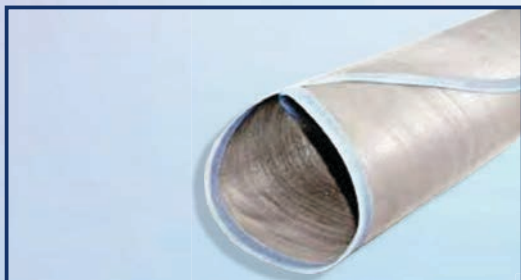
### CHARACTERISTICS

- ▲ Crevice Free GMP Design
- ▲ Super Tight Finish
- ▲ Toxicology Tested
- ▲ Certified as per International Standards
- ▲ Available in SS 316 Quality
- ▲ Available in 200mm dia to 1220mm dia (For regular sifter sieve)
- ▲ Available in 610mm (24") dia to 1200mm (48") dia (for Z type sifter sieve)
- ▲ Wire Mesh sizes available from 4# to 400# as per all international standards
- ▲ Available in Silicone transparent, Silicone White and Static Dissipative Rubber

### Z Type Sifter Sieves



### FBD, FBP & FBE Sieves



- ▲ Crevice Free GMP Design
- ▲ Certified as per International Standards
- ▲ Available in SS 316 Quality
- ▲ Available in 200mm dia to 1500mm dia
- ▲ Wire Mesh sizes available from 20 micron to 125micron as per all international standards
- ▲ Available in Silicone transparent, Silicone White and Static Dissipative Rubber

# Screens

**Screens for: Cone-mill, Comminuting Mill, Multimill, Oscillating Granulator, Air Distribution Plate, Rotary Sifter**



**CONE MILLS/COMILLS**



**MULTIMILLS**



**AIR DISTRIBUTION PLATE**



**COMMINUTING MILLS**



**OSCILLATING GRANULATOR**



**SCREEN FOR ROTARY SIFTER**

- ✦ **MOC : Stainless Steel-316 and 316-L Quality.**
- ✦ **Aperture sizes available from 200 microns to 20mm.**
- ✦ **Aperture shape available in Round, Square, Grater, Oblong Slotted, Herring Bone, Hexagonal.**
- ✦ **Standards : ASTM E-674, ASTM E-454.**
- ✦ **Design : GMP Quality.**
- ✦ **Special Designs : For processes like De-lumping, Wet Milling, Dry Milling, Sizing of Granules.**
- ✦ **Special Sieves : For handling Very Hard Material, Fine Milling and Fibrous Material.**
- ✦ **Sieves suitable for various International and Indian Machine Manufacturers.**
- ✦ **Sieves can be tailor made to your specifications.**
- ✦ **Laser printing for lot identification.**

**Note - Our sieves suitable for Sweco, Russell, Pennwalt sifters and all Indian machine manufacturers. Sieves can be tailor made to your specifications.**

**\*Sweco is a business unit of M.I.LLC which is not in any way affiliated with Ami Polymer Pvt Ltd.**

**\*Pennwalt is not in any way affiliated with Ami Polymer Pvt Ltd.**

**\*Quadro, Glatt, GEA, Cronimo, Kemutec, Frewitt (Coniwitt) are not in any way affiliated with Ami Polymer Pvt. Ltd.**





## Silicone Sleeves for Corona Treater

**APPL's** di-electric silicone sleeve manufactured from a very specific silicone rubber compound, providing excellent electrical, thermal and chemical resistance, making it ideally suited to the harsh environment that is the corona treatment process. **APPL's** silicone sleeves are produced specifically as an electrical dielectric sleeve and is manufactured to extremely close tolerance, ensuring reliable and consistent corona treatment performance.

**APPL's** sleeves are available in the sizes 50 mm (2"), 75 mm (3") and 98 mm (4") nominal diameters. If you have another treater roll diameter, please ask because we are sure that we can supply a sleeve to fit your requirement.

### STANDARD SIZE

PROPERTY	UNIT
Working Temp. Range	-700C to + 2300C
Tensile Strength	9 Mpa (approx.)
Elongation at Break	350%
Tear Strength	20 N/mm
Hardness (Durometer)	65 ± 5 Shore A
Compression Set (22 hrs at 175°C)	30% compression
Density	1.15 g/cm <sup>3</sup>
Dielectric Strength*	18-22 kV/mm
Tracking Resistance	3.5 kV/10-30 minutes
ARC Resistance*	80-100 seconds
Surface Resistance	1012 1013 Ω
Volume Resistivity	1015 1016 Ωcm

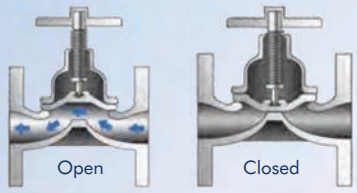
ROLLER DIAMETER IN INCHES	ROLLER DIAMETER IN (MM)	SLEEVE INNER DIAMETER (MM)	WALL THICKNESS AVAILABLE (MM)
1.5	38	34	2, 2.5, 3, 4
2	48 TO 50	47	2, 2.5, 3, 4
2.5	63 TO 65	58	2, 2.5, 3, 4
3"	73 TO 78	69	2, 2.5, 3, 4
3.5"	88 TO 90	82	2, 2.5, 3, 4
4"	98 TO 102	93	2, 2.5, 3, 4
4.5"	115 TO 118	107	2, 2.5, 3, 4
5"	124 TO 127	115	2, 2.5, 3, 4
6"	148 TO 152	140	2, 2.5, 3
8"	200	190	2, 2.5, 3

## Silicone Autoclave Gaskets

### FEATURE

- ▲ Autoclave Gaskets are available for Steam Sterilizer and Dry Heat Sterilizer
- ▲ Autoclave Gasket are also available as Inflatable Gasket.
- ▲ Excellent joint finishing from European technology of manufacturing.





# Diaphragms

**Silicone/EPDM/PTFE**

Food/Pharma grade, platinum cured silicone is widely accepted in pharmaceutical and biotech applications and is often used throughout the plant. Like all of our diaphragm materials, our silicone diaphragms meet USP Class VI and FDA 21 CFR 177.2600 standards.

**FEATURES & BENEFITS**

- ▲ All diaphragms meet USP VI standard and are FDA CFR 177.2600 compliant
- ▲ Meets the standards for quality, purity, lack of toxicity, strength and consistency
- ▲ Suitable for biomedical/pharma application

**TYPES**

- ▲ Flush Bottom Valves
- ▲ Zero Dead Leg Valves
- ▲ Diaphragms Valves
- ▲ Pressure Regulation
- ▲ Back Pressure Valves

# Rubber Sheets

**Silicone/EPDM/FKM/Neoprene/PTFE**

APPL's high quality silicone sheets conforms to FDA 21 CFR 177.2600 grade. These sheets are processed in high-pressure hydraulic moulding machines by accurately controlling the temperature and pressure, which ensures uniform physical properties of the sheets. APPL's silicone sheets are available in white, red or orange or in any other colors as per the requirement of the customers.

RUBBER SHEET STANDARD SIZES		
MOC	MIN THICKNESS	MAX THICKNESS
<b>1 FEET X 1 FEET</b>		
SILICONE	1MM	20MM
FKM/VITON®	2MM	12MM
SILICONE SPONGE	3MM	12MM
<b>2 FEET X 2 FEET</b>		
SILICONE	2MM	12MM
FKM/VITON®	2MM	12MM
SILICONE SPONGE	3MM	12MM
<b>1 METER X 1 METER</b>		
SILICONE	1MM	12MM
FKM/VITON®	2MM	12MM
<b>1 METER X 10 METER</b>		
SILICONE	1MM	6MM
<b>1.2 METER X 10 METER</b>		
SILICONE	1MM	6MM





## Imasafe® Reusable Menstrual Cup

**Imasafe® Menstrual Cup :** Is a menstrual hygiene device which is inserted into the vagina during menstruation. Its purpose is to collect menstrual fluid.

**A menstrual cup is a type of reusable feminine hygiene device. It's a small, flexible funnel-shaped cup made of 100% medical grade liquid silicone rubber that you insert into your vagina to catch and collect period fluid.**

### FEATURES

- ▲ **Size:** Imasafe® reusable menstrual cup comes in 3 different sizes: small (15ml), medium (25 ml), and large (30 ml)
- ▲ **Stem:** It helps you to find the cup once you're ready to remove it
- ▲ **Air holes:** It helps the cup stay suctioned inside the body to prevent the leak
- ▲ **Ridges:** For easy grip and secure removal
- ▲ **Smoother Rim:** It is flexible and helps the cup in easier insertion and open up once it's inside
- ▲ **Appearance/Colors:** It comes in six different colors: transparent, purple, aqua green, pink, red and black
- ▲ **Shelf-Life:** 5 years

### TECHNICAL SPECIFICATION

- ▲ 100% medical grade liquid silicone rubber
- ▲ Manufactured in clean room ISO class 10000
- ▲ Tested by highly qualified rubber technologists and engineers
- ▲ Advance R&D lab

### ADVANTAGES

- ▲ Safer than pads & tampons
- ▲ Budget-friendly & eco-friendly
- ▲ Holds more blood
- ▲ No leakage, no odor, no infection & rashes
- ▲ It can be used upto 8 hours

### OUR STRENGTH

- ▲ Manufactured in clean room ISO class 10000 facility
- ▲ Fastest delivery with high quality product
- ▲ CDSCO certified product

### COMPLIANCE & CERTIFICATIONS

- |                                    |                  |
|------------------------------------|------------------|
| ▲ FDA 21 CFR 177.2600              | ▲ RoHS Compliant |
| ▲ ISO 10993-5                      | ▲ BPA free       |
| ▲ ISO 10993-10                     | ▲ TSE / BSE FREE |
| ▲ ISO 13485 Certified              | ▲ PHTHALATE FREE |
| ▲ Vaginal Membrane Irritation Test | ▲ USP CLASS VI   |
| ▲ SVHC Tested                      | ▲ ISO 10993-4    |

\* We are open for private labelling



## Imastopper™

Platinum Cured Silicone Stopper (NSF-51 Certified silicone resin, USP class VI & ISO 10993 Biocompatibility study on our Product)

APPL's Platinum cured silicone rubber stoppers/closures meets regulatory market requirement. Our stoppers are the ultimate way to prevent material loss and keep the valuable drug contamination free from atmosphere condition, which makes it useful in labs, pharma segments and its derivative segments. With excellent feasibility covering wide range of Pharmaceuticals ingredients and intermediates.

Food & Pharma grade silicone stoppers are accessible on your fingertips in tailor made design and colors for diversified applications with advantage of Autoclavable and Sterilizable with superior crack resistance, It is easy to put customized shapes multiple throughout openings in solid cork, excellent traction and smooth persuasive color coding on demand

### APPLICATION

APPL silicone stoppers provide solution to Biopharma, Pharmaceutical, Biomedical, Cosmetic, and Food industries.

- ▲ To prevent the liquid chemical leaks or escape the container in Laboratories
- ▲ Drug packaging vessels
- ▲ Process storage Procedures
- ▲ Single use assembly (Manifolds)
- ▲ Carboys and vessels
- ▲ Filtration Flask
- ▲ Sampling

### COMPLIANCE & CERTIFICATIONS

- ▲ FDA 21 CFR 177.2600
- ▲ ISO 10993-3
- ▲ ISO 10993-10
- ▲ ISO 10993-5
- ▲ USP CLASS 87
- ▲ ISO 10993-4
- ▲ GERMAN BFR XV
- ▲ ROHS Compliant
- ▲ USP CLASS VI
- ▲ TSE / BSE FREE
- ▲ FRANCE ARRETE DU 25
- ▲ European Pharmacopoeia E.P.3.1.9
- ▲ PHTHALATE FREE

Sr No	BD (mm)	TD (mm)	HT (mm)
1	8.9	13.4	21
2	10.7	15	25
3	13.2	17	25
4	14.9	19.7	24.5
5	16.2	19.7	25
6	18.4	24	25
7	19.8	26	25
8	22.6	26.7	25
9	26.4	32	23
10	28.3	36.6	24
11	33.2	41	25



## Silicone Bellows

### For Powder Transfer System



## Silicone Bellows

### For Tablet Compression Machine





**T PARTITION GASKETS**



**PARTITION GASKETS**



**SILICONE HOPPER GASKETS**



**SILICONE TIRES/BANDS**



**SILICONE TIPS**



**MEDICAL & SURGICAL COMPONENTS**



**SILICONE DUST CUP (D & B TOOLING)**



**SILICONE MOUTHPIECE**



**SILICONE SUCTION CUP**



**ANTISTATIC GASKET**



**BELLOW FOR ISOLATOR**



**BUTTERFLY VALVES GASKETS  
IN SILICONE/FKM/EPDM**



**SILICONE CORK**



**SILICONE WASHER**



# Few of Our Prestigious Clients




- USA
- Canada
- Germany
- UK
- France
- Italy
- Spain
- Belgium
- Netherlands
- Sweden
- Poland
- Switzerland
- Russia
- China
- Japan
- South Korea
- Turkey
- Malaysia
- Singapore
- Thailand
- Bangladesh
- Nepal
- Sri Lanka
- Ukraine
- Brazil
- Argentina
- Mexico
- Chile
- Colombia
- South Africa
- Egypt
- Algeria
- Nigeria
- Kenya

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**Ami Polymer**

"Sealing Expert in Silicone"

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