



QUALITY SINCE 1955

Innovating for Tomorrow

EN ISO
13485:2016 Certified

WHO GMP
Compliant Company

CE
0123



ULTRASIL



PRODUCT CATALOGUE

ULTRASIL

- Pureline
- Oxide
- Polybraid
- Wind
- Duct
- Flexo
- Air
- Clave

SILICONE

PHARMA AND INDUSTRIAL PRODUCTS



www.sterimedgroup.com

ABOUT US

Founded in 1955, Sterimed Group today has presence in the fields of Medical and Surgical Devices, Industrial and Medical Adhesive Tapes, Eco-friendly non-woven bags among others. At Sterimed Group we take pride in delivering quality consistently for over 65 years, and growing on the trust and goodwill of our customers. Focusing on the future, we are expanding rapidly into newer products and geographies, and are slated to be amongst the fastest growing homegrown companies in the country.

Sterimed introduces a new generation of silicone rubber products and profiles to meet the most stringent requirements in the pharmaceutical, food, and medical industries. Our company specializes in custom extrusion profiles, gaskets, compression molding and LSR molding products. The raw material is compounded using the purest of ingredients with state of the art mills to configure the properties of products as per requirements. From raw materials to finished goods, all products are manufactured in certified clean rooms under strict quality control procedures. Our products are non-toxic, odourless, and can withstand a wide range of drugs and chemicals as well as temperatures ranging from -50 to +200 degrees Celsius.



QUALITY ASSURANCE

At Sterimed, Quality Assurance is at the heart of how we do things. Our comprehensive Quality Management System ensures exhaustive checks and testing at all stages in the production cycle, right from raw material procurement till packing of the finished products. And our state-of-the-art manufacturing facilities at Bahadurgarh near New Delhi meet the strictest international compliances and requirements.

Our rigorous quality control standards have earned us the WHO GMO certification, CE Marking as per European Medical Device Directive 93/47/EEC, EN ISO ISO 13485:2016 certifications.

STRICT HYGIENE AND SAFEGUARDS

At Sterimed, we have set stringent hygiene and environment friendly standards. Walls and flooring at all facilities are epoxy coated to minimize bio load, and Special HEPA /micro filters are provided at all air handling equipment to minimize contamination in the manufacturing areas.

RESEARCH AND DEVELOPMENT

In line with our vision of Innovating for Tomorrow, there is immense focus internally on Research and Development. A modern laboratory equipped with pilot plant facilities works constantly on improving existing products and developing new innovative products for the portfolio.

GLOBAL PRESENCE

Sterimed Group's vision spans across geographies, catering to domestic as well as international markets. With operations across Latin America, Africa and South-East Asia, the group is fast expanding its footprint globally.

OUR VISION IS TO INNOVATE FOR TOMORROW
WITH A SHARP FOCUS ON QUALITY AND EXCELLENCE,
AND ON DELIVERING WORLD-CLASS PRODUCTS.

STERIMED | Innovating for Tomorrow



FDA 21 CFR 177.2600



USP CLASS VI



ISO 10993-3
GENOTOXICITY



ISO 10993-10
SENSITIZATION



ISO 10993-4
HEMOLYSIS



ISO 10993-11
SYSTEMIC TOXICITY



ISO 10993-5
CYTOTOXICITY



OUR STRENGTH

Clean room of
Class 10000
certified facility



TUV SUD certified ISO 9001:2008,
As per EN ISO 13485:2016 CE marking
as per European medical device directive
93/42/EEC amended by 2007/47/EEC



WHO GMP
WHO GMP Compliant Facility

**Advanced fully automatic
extrusion machines**
for tubing/profiles.

**Fully automatic
LSR injection molding**
machine

**Laser controlled
manufacturing system**
for accurate online
dimension of tubing/profiles

Video measuring machine
system for accurate
dimension of tubing/profiles

**Advance R&D facility
and quality lab**
with latest equipments

In house
**E.T.O sterilization
facility**

Ultrasil Pureline

Platinum Cured Silicone Tube (Regulatory)

Pureline platinum cured silicone tube are suitable for peristaltic pump and fluid transfer process in pharmaceutical and biotech Industries. **Pureline** silicone tubing known for its ultra smooth bore to prevent any particle entrapment. It is especially designed to comply with requirement of critical food and pharmaceutical standard of regulatory markets.

FEATURES:

- Manufactured in a certified class 10000 clean room facility.
- WHO GMP compliant Facility.
- Video measuring machine system
- Excellent flexibility along with flex crack resistance.
- Odorless & tasteless with excellent transparency & enhance self life.
- Bio- compatible material.



APPLICATION

Peristaltic pump.

Medical applications.

Vaccine transfer.

Serum transfer.

Cell culture.

Drug delivery.

Bio – Pharma.

Food & Beverages.

NOTE: Customization of size & color available

Ultrasil Techline

Platinum Cured Silicone Tube (Non - Regulatory)

Techline is general purpose applications silicone tubing in food and pharmaceutical industries. **Techline** has an extremely smooth inner surface that helps minimize the risk of particle entrapment during sensitive fluid transfer.

FEATURES:

- Manufactured by using general purpose platinum grade silicone rubber.
- Better fluid transfer characteristics compare to peroxide silicone tubing.
- Available with FDA approved silicone based color coding.



APPLICATION

Fluid transfer using peristaltic pump.

Chemical and analytical analysis.

Food and Beverages transfer.

Drug delivery.

Sanitary application.

NOTE: Customization of size & color available

Ultrasil **Oxide**

Peroxide Cured Silicone Tube

Oxide peroxide grade silicone tubing designed for general, non critical applications. **Oxide** silicone tubing having good flexibility and resiliency. It is suitable for peristaltic pump applications for non-critical fluid transfer.

FEATURES:

- Manufactured in a certified class 10000 clean room facility.
- Manufactured by using high quality peroxide grade silicone rubber.
- Excellent physical properties like tear strength and compression set.
- Odorless and tasteless.
- Available with FDA approved color coding for ease of identification.
- Temperature range -80°C to +230°C
- BPA & Phthalates free.



APPLICATION

Diary industry.

Peristaltic pump.

Powder transfer.

Vending machine.

Electrically conductive application for charged dissipation.

Water dispensers.

NOTE: Customization of size & color available

SILICONE TUBING COMPARISON CHART

SPECIFICATIONS	Pureline	Techline	Oxide
Physical property test report	Available	Available	Available
FDA 21 CFR 177.2600 (USA food grade certificates)	Available	Available	Available
TSE/BSE certification	Available	Not Available	Not Available
Genotoxicity test (ISO 10993-3 Biocompatibility standard)	Available	Not Available	Not Available
Haemolysis test (ISO 10993-4 Biocompatibility standard)	Available	Not Available	Not Available
Cytotoxicity test (ISO 10993-5 Biocompatibility standard)	Available	Not Available	Not Available
Skin sensitization/skin reaction test (ISO 10993-10 Biocompatibility standard)	Available	Not Available	Not Available
Implantation test (ISO 10993-6 Biocompatibility standard)/ Compliance USP class VI	Available	Not Available	Not Available
Intracutaneous reactivity (ISO 10993-10-Biocompatibility standard) /Compliance USP class VI	Available	Not Available	Not Available
Acute systemic toxicity test (ISO 10993-11-Biocompatibility standard) /Compliance USP Class VI	Available	Not Available	Not Available
Phthalates free/ Bisphenol free COA	Available	Not Available	Not Available
Manufacturing environmental of product	Clean room ISO class 7	Clean room ISO class 7	Clean room ISO class 7
ROHS (Restriction of hazardous substances)	Available	Available	Not Available
Shelf life of the product	5 Years	5 Years	5 Years
Applications	Critical fluid transfer	General purpose	Non-critical fluid transfer

STANDARD AVAILABLE SIZES FOR TUBING

Inner Diameter Size		Outer Diameter Size		Catalogue No		
MM	Inch	MM	Inch	Pureline	Techline	Oxide
1.6	1/16	3.17	1/8	ST-60PL-160317	ST-60TL-160317	ST-60X-160317
2.00	5/64	4.00	5/32	ST-60PL-204	ST-60TL-204	ST-60X-204
2.00	5/64	5.00	13/64	ST-60PL-205	ST-60TL-205	ST-60X-205
3.00	1/8	6.00	1/4	ST-60PL-306	ST-60TL-306	ST-60X-306
3.00	1/8	7.00	9/32	ST-60PL-307	ST-60TL-307	ST-60X-307
3.00	1/8	8.00	5/16	ST-60PL-308	ST-60TL-308	ST-60X-308
4.00	5/32	6.00	1/4	ST-60PL-406	ST-60TL-406	ST-60X-406
4.00	5/32	7.00	9/32	ST-60PL-407	ST-60TL-407	ST-60X-407
4.00	5/32	8.00	5/16	ST-60PL-408	ST-60TL-408	ST-60X-408
4.00	5/32	9.00	23/64	ST-60PL-409	ST-60TL-409	ST-60X-409
4.00	5/32	10.00	25/64	ST-60PL-4010	ST-60TL-4010	ST-60X-4010
5.00	13/64	8.00	5/16	ST-60PL-508	ST-60TL-508	ST-60X-508
5.00	13/64	9.00	23/64	ST-60PL-509	ST-60TL-509	ST-60X-509
5.00	13/64	10.00	25/64	ST-60PL-5010	ST-60TL-5010	ST-60X-5010
6.00	1/4	8.00	5/16	ST-60PL-608	ST-60TL-608	ST-60X-608
6.00	1/4	9.00	23/64	ST-60PL-609	ST-60TL-609	ST-60X-609
6.00	1/4	10.00	25/64	ST-60PL-6010	ST-60TL-6010	ST-60X-6010
6.00	1/4	11.00	7/16	ST-60PL-6011	ST-60TL-6011	ST-60X-6011
6.00	1/4	12.00	15/32	ST-60PL-6012	ST-60TL-6012	ST-60X-6012
7.00	9/32	11.00	7/16	ST-60PL-7011	ST-60TL-7011	ST-60X-7011
8.00	5/16	11.00	7/16	ST-60PL-8011	ST-60TL-8011	ST-60X-8011
8.00	5/16	12.00	15/32	ST-60PL-8012	ST-60TL-8012	ST-60X-8012
8.00	5/16	14.00	35/64	ST-60PL-8014	ST-60TL-8014	ST-60X-8014
8.00	5/16	16.00	5/8	ST-60PL-8016	ST-60TL-8016	ST-60X-8016
9.00	23/64	15.00	19/32	ST-60PL-9015	ST-60TL-9015	ST-60X-9015
9.00	23/64	16.00	5/8	ST-60PL-9016	ST-60TL-9016	ST-60X-9016
10.00	25/64	14.00	35/64	ST-60PL-10014	ST-60TL-10014	ST-60X-10014
10.00	25/64	16.00	5/8	ST-60PL-10016	ST-60TL-10016	ST-60X-10016
10.00	25/64	18.00	45/64	ST-60PL-10018	ST-60TL-10018	ST-60X-10018
12.00	15/32	16.00	5/8	ST-60PL-12016	ST-60TL-12016	ST-60X-12016
12.00	15/32	18.00	45/64	ST-60PL-12018	ST-60TL-12018	ST-60X-12018
12.00	15/32	20.00	25/32	ST-60PL-12020	ST-60TL-12020	ST-60X-12020
15.00	19/32	21.00	53/64	ST-60PL-15021	ST-60TL-15021	ST-60X-15021
16.00	5/8	24.00	15/16	ST-60PL-16024	ST-60TL-16024	ST-60X-16024
19.00	3/4	25.00	1	ST-60PL-19025	ST-60TL-19025	ST-60X-19025
19.00	3/4	27.00	1-1/16	ST-60PL-19027	ST-60TL-19027	ST-60X-19027
25.00	1	31.00	1-7/32	ST-60PL-25031	ST-60TL-25031	ST-60X-25031
25.00	1	35.00	1-3/8	ST-60PL-25035	ST-60TL-25035	ST-60X-25035
25.00	1	37.00	1-1/2	ST-60PL-25037	ST-60TL-25037	ST-60X-25037

Ultrasil Polybraid

Silicone hose reinforced with polyester braiding

Polybraid silicone hose reinforced with polyester are suitable for pressurized fluid transfer application in pharmaceutical and biotech industries. **Polybraid** hose have excellent Bend radius.

FEATURES:

- Excellent flexibility.
- Preferred in pressurized application for transferring liquid & semi-liquid products via.
- Used for manufacturing low volatile grade silicone resin.
- Odorless and tasteless.
- Sterilization by autoclave, gamma radiation & ETO.
- Available with SS 316L tri-clovers end or without T/C end.



APPLICATION

Biotech industry.

Food and Beverage processing.

Chemical labs.

Critical fluid transfer.

Cell culture.

Chemical and adhesive filling system.

NOTE: Customization of color available. Also available in platinum & peroxide cured silicone

ULTRASIL POLYBRAID HOSE SIZES

Catalogue No.	Size (mm)		Size (Inch)	Working Pressure (Bar)	Bursting Pressure (Bar)	Bend Radius (mm)
	ID	OD	Inch			
SH-PB-6013	6	13	1/4"	10	30	50
SH-PB-9016	9	16	11/32"	10	30	50
SH-PB-12020	12	20	1/2"	9	27	80
SH-PB-16024	16	24	5/8"	7	21	80
SH-PB-19027	19	27	3/4"	6	18	100
SH-PB-25035	25	35	1"	5	15	140
SH-PB-32042	32	42	1 1/4"	4	12	160
SH-PB-37047	37	47	1 1/2"	3.5	10.5	240
SH-PB-50062	50	62	2"	3	9	300

Ultrasil Wind

Silicone hose reinforced with SS 316L helical wire

Wind is intended for material transfer application under high Vacuum in the pharmaceutical industries. Better transparency to visualize flow, its also kink resistant.

FEATURES:

- Offers high flexibility and tight bending radius. Hence assisting in repetitive movements in dosing and filling machines.
- Having antistatic properties to dissipate static electrical charge generated.
- High burst pressure resistance.
- Odorless and tasteless.
- Sterilization by autoclave, gamma radiation & ETO.
- Available with SS 316L tri-clovers end or without T/C end.



APPLICATION

Liquid suction transfer.

Bulk transfer.

Food and Beverage industries.

High vacuum application.

Biotechnology labs and industries.

Pharmaceutical processing.

Powder and fluid transfer.

Load cell culture.

NOTE: Customization of color available. Also available in platinum & peroxide cured silicone

ULTRASIL WIND HOSE SIZES

Catalogue No.	Size (mm)		Size (Inch)	Working Pressure (Bar)	Bursting Pressure (Bar)	Vacuum (mm Hg)	Bend Radius (mm)
	ID	OD	Inch				
SH-W-6013	6	13	1/4"	12	48	760	50
SH-W-9016	9	16	11/32"	12	48	760	50
SH-W-12020	12	20	1/2"	10	40	760	80
SH-W-16024	16	24	5/8"	9.5	38	760	80
SH-W-19027	19	27	3/4"	9	36	760	90
SH-W-25035	25	35	1"	8.5	34	760	125
SH-W-32042	32	42	1 1/4"	8	32	500	140
SH-W-37047	37	47	1 1/2"	7.5	30	500	170
SH-W-50062	50	62	2"	7	28	400	240
SH-W-64076	64	76	2 1/2"	5	20	-	-
SH-W-75087	75	87	3"	3	12	-	-
SH-W-1000112	100	112	4"	2	8	-	-

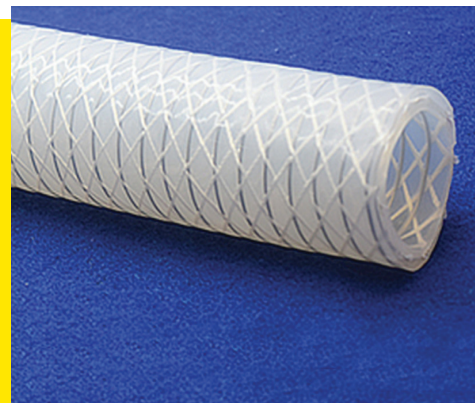
Ultrasil Duct

Silicone hose reinforced with polyester and SS 316L helical wire

Duct silicone hose reinforced with polyester and SS 316L helical wire is suitable for vacuum and pressure application. **Duct** is having high burst pressure rating along with high vacuum resistance. The product is suitable in pressurized fluid transfer application.

FEATURES:

- Highly suitable for pressurized fluid transfer application.
- Having antistatic properties to dissipate static electrical charge generated.
- Odorless and tasteless.
- Sterilization by autoclave, Gamma radiation & ETO.
- Available with SS 316L tri-clovers end or without T/C end.



APPLICATION

Pharmaceutical processing.

Food processing.

High vacuum application.

Biotechnology.

Powder and fluid transfer.

Load cell culture.

Bulk transfer.

NOTE: Customization of color available. Also available in platinum & peroxide cured silicone

ULTRASIL DUCT HOSE SIZES

Catalogue No.	Size (mm)		Size (Inch)	Working Pressure (Bar)	Bursting Pressure (Bar)	Vacuum (mm Hg)	Bend Radius (mm)
	ID	OD	Inch				
SH-D-6013	6	13	1/4"	13	45	760	60
SH-D-9016	9	16	11/32"	12.5	43.5	760	70
SH-D-12020	12	20	1/2"	12	40	760	80
SH-D-16024	16	24	5/8"	12	36	760	80
SH-D-19027	19	27	3/4"	11.5	34.5	760	90
SH-D-25035	25	35	1"	10	30	760	125
SH-D-32042	32	42	1 1/4"	9	27	500	140
SH-D-37047	37	47	1 1/2"	8.5	25.5	500	170
SH-D-50062	50	62	2"	7	21	400	240

Ultrasil Flexo

PTFE inner core with SS braiding coated with silicone rubber

Flexo is having ultra smooth bore which enhances superior flow properties and least adhesion to particulates. **Flexo** is having capacity to withstand high pressure along with greater chemical resistance. The silicone outer layer cover acts as insulation to high temperature and keeps surface dust free.

FEATURES:

- Smooth silicone cover provides enhanced safety to user.
- Excellent chemical resistance.
- Easy cleaning.
- Sterilization by autoclave, Ethylene oxide gas and Gamma radiation.
- Available with SS 316L tri-clovers end or without T/C end.



APPLICATION

Pharmaceutical fluid transfer.

Beverage plants.

Mega factories for transferring corrosive fluids.

Cosmetic industries.

High temperature fluid transfer.

High pressure fluid transfer.

Battery acid plants.

NOTE: Customization of color available. Also available in platinum & peroxide cured silicone

ULTRASIL FLEXO HOSE SIZES

Catalogue No.	Size (mm)		Size (Inch)	Working Pressure (Bar)	Bursting Pressure (Bar)	Vacuum (mm Hg)	Bend Radius (mm)
	ID	OD	Inch				
SH-F-6013	6	13	1/4"	120	360	760	NA
SH-F-9016	9	16	11/32"	105	315	760	NA
SH-F-12020	12	20	1/2"	90	270	760	NA
SH-F-16024	16	24	5/8"	85	255	760	NA
SH-F-19027	19	27	3/4"	60	180	760	NA
SH-F-25035	25	35	1"	40	120	760	NA
SH-F-32042	32	42	1 1/4"	35	105	500	NA
SH-F-37047	37	47	1 1/2"	35	-	500	NA
SH-F-50062	50	62	2"	30	-	400	NA

Extruded Profile

Sterimed offers a wide range of silicone extruded profile gasket in variety of different shapes, designs & customizable. We make those products by using superior quality rubber that ensures good elongation and tensile strength.

Extruded door gaskets (Autoclavable) can easily withstand a temperature range of -50°C to +200°C.

FEATURES:

- Having good sealing performance.
- High temperature resistance and durability.
- Known for anti- compression deformation.
- Color & size customization available.

NOTE: Customization of size & color available



Cords, Strips & Gaskets

Sterimed offers a wide range of Cords (in square and round section) and strips in silicone rubber ranging from 0.5mm to 50mm. These products are manufactured by extrusion process or by step molding process. Both these processes are sophisticated & technologically cutting edge, preserving the precise dimensions, finish and constant physical properties.



APPLICATION

Clean room doors.

Air tight door seals.

Freeze doors.

Pharmaceuticals processing.

Telecom shelters.

Autoclave, Isolators.

NOTE: Customization of size & color available

Ultrasil Air

Inflatable gasket

Inflatable Seals are rubber seals which inflate (rather than compress) to offer contamination proof sealing in a wide range of applications. **Sterimed's** inflatable seals designed to provide efficient hermetic sealing solutions providing protection against incursions by powders, Granules, Gases, Liquid and Dust. The inflation range of inflatable gasket are from 5mm to 20mm when 2-3 bar pressure is applied after installation.

FEATURES:

- Faster and tighter closing of large sealing surfaces.
- High mechanical load-bearing strength.
- Low volatile grade silicone rubber.
- Inert and no taste or odors.
- Autoclavable and sterilizable.
- Ultra-flexibility.
- Long service life.

APPLICATION

Fluid bed dryers / Processors / Coaters.
Rapid mixtures granulators.
Furnaces.
Nuclear door seals.
Airlock door seals.
Powder and bulk solid handling.
Autoclave, Sterilizer.
Isolators and pass box.
Electronic/ Wafer semi-conductor processing.

APPLICABLE INDUSTRIES

Pharmaceuticals.
Biotech.
Food process.
Engineering.
Aerospace.
Chemical / Petrochemical.
Marine maintenance and operation.
Medical.
Custom application.



NOTE: Customization of size & color available

Ultrasil Clave

Silicone Autoclave Gasket

Autoclave Gasket are typically constructed with solid Silicone Rubber a minimum of 1/4" thickness. As a safety feature they should not depend on air or steam Pressure for their sealing but rather on the pressure of the door as it closes against the gasket. We are manufacturing HI-Grade Polymer Autoclave Gasket in Steam Resistance Silicone Rubber Only.

FEATURES:

- Autoclave are available for Steam Sterilizer and Dry Heat Sterilizer.
- Will not deflate if compressed air or steam is Lost.
- Creates a Purely Mechanical Seal and is therefore fail safe.

APPLICATION

Medical Industry.
Chemical Processing.
Sterilization Mechanisms.
Industrial Processes
Steam Autoclave Applications.
Surgical Product Manufacturing.



NOTE: Customization of size & color available



ULTRASIL

SILICONE PHARMA AND INDUSTRIAL PRODUCTS



Innovating for Tomorrow

QUALITY SINCE 1955

MEDICAL & SURGICAL DEVICES
DISPOSABLES & CUSTOMISED KITS
ADHESIVE TAPES

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