



ETISIL®
www.etsil silicone.com



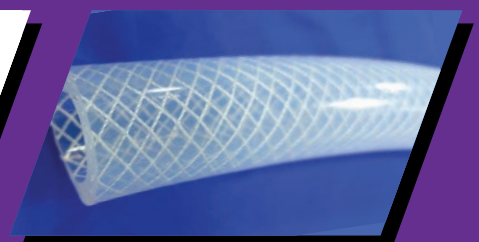
**EXTRACTABLE & LEACHABLE
STUDIES ON PLATINUM
PHARMA TUBINGS**



ELASTO-TECH
INDUSTRIES PVT. LTD.

CIN : U25114MH2013PTC244004

**INNOVATION, PERFORMANCE & PRECISION
IN PHARMA RUBBER TUBING**



www.etsil silicone.com
www.elastotechindustries.com

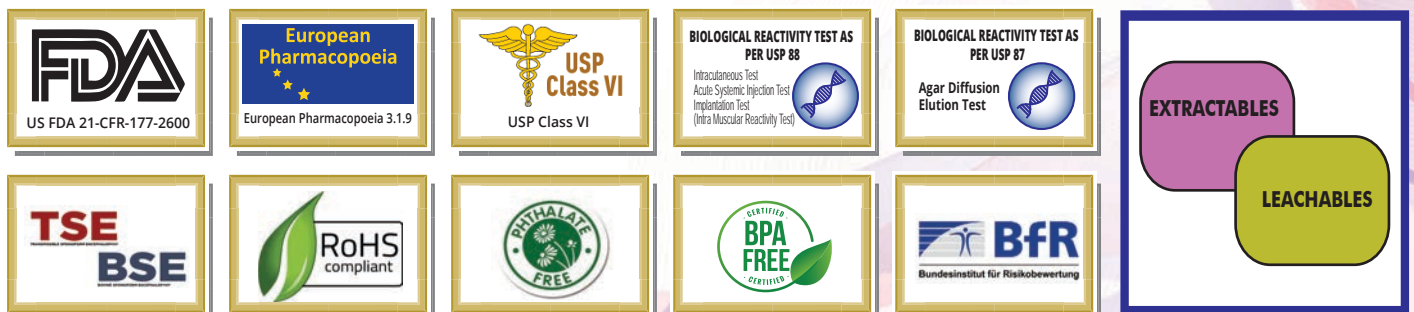
ABOUT US

Elasto-Tech Industries Pvt Ltd. started its operations as a Partnership Company in 1999 for manufacturing Silicone Extruded Products such as **Transparent Silicone Tube, Silicone cords, Silicone Profile, etc.** for Pharmaceutical companies and had a wide range of client list. The Constitution of the company was changed in 2013 to Pvt Ltd Company and introduced **Platinum Cured Range of products, Braided Silicone Hoses, and Moulded articles like TC Gaskets, Bellows, and Diaphragms etc.** We have a Dedicated R&D and Production team with State of the Art Manufacturing Facility of **10,000 Square foot** catering to the needs of the Pharmaceutical Industry by providing them with quality regular products and custom-built products.

SALIENT FEATURES ABOUT US

- ❖ US FDA DMF Registration No. 29008
- ❖ TUV NORD ISO 9001-2015 Certified Company
- ❖ Certified Class 10000 Clean Room Facility.
- ❖ GMP Certification- No. 1014GD52
- ❖ MSME Registered Company.
- ❖ Dedicated Separate Facility for Platinum Cured Silicone and Peroxide Cured Silicone Mfg.
- ❖ Extractable and Leachable Studies (available on request)
- ❖ Product Validation – Reports available upon request

COMPLIANCE & CERTIFICATIONS



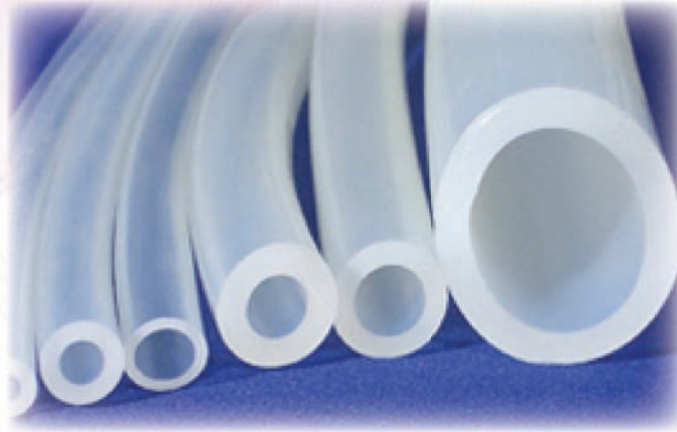
PRODUCT RANGE

- ❖ ETISIL® Platinum Cured Silicone Transparent Tubes
- ❖ ETISIL® Platinum Cured Silicone Transparent Bi-Coloured Tubes
- ❖ ETISIL® Platinum Cured Silicone Braided Hose with Polyester Yarn
- ❖ ETISIL® Platinum Cured Silicone Hose reinforced with SS 316 L Helical wire
- ❖ ETISIL® Platinum Cured Silicone Braided Hose reinforced with Polyester Yarn & Helical SS 316 L with / without Tri clover End Connections.
- ❖ ETISIL® Peroxide Cured Silicone Transparent Tubes
- ❖ ETISIL® Double Colour Silicone Braided Hose (Inner Transparent and Outer Colour Blue / Red)
- ❖ ETISIL® Silicone Tubes with Full SS Covering with/without Tri clover End connections
- ❖ ETISIL® Silicone Sleeves Transparent and Colour
- ❖ ETISIL® Silicone Extruded Profiles
- ❖ ETISIL® Silicone Endless Gaskets
- ❖ ETISIL® Silicone Cords
- ❖ ETISIL® Silicone Door Gaskets
- ❖ PTFE tube with SS Covering and with / without Silicone Covering
- ❖ ETISIL® FBD Gaskets (Fluid Bed Dryer Gasket)
- ❖ ETISIL® Tri Clover Gaskets (T C Gaskets)
- ❖ ETISIL® Silicone Bellows
- ❖ ETISIL® Silicone / EPDM Diaphragms with or without PTFE
- ❖ ETISIL® Silicone Valves
- ❖ SS 316 Stirrer Blades (Single Piece)
- ❖ PTFE tube



PLATINUM CURED SILICONE TUBE

For Food and Pharmaceutical Application and for Regulatory Market



ETISIL® Platinum Cured Silicone tubes are suitable for Peristaltic Pump and for transferring sterile liquids. It is used for transfer of Injectable in Vial filling, filtration, drainage, etc. by Pharmaceutical companies. ETISIL Platinum cured tubes are available in two series, PTGxxxxxxx for Food and Pharma application and PTR xxxxxxx for regulatory Market. Product Validation Pack is available for Regulatory Market. Food and Pharma grades are supplied with US FDA 21-CFR-177-2600 certificates. The tubes can withstand a wide range of temperature between -65 ° to 200 ° c. It can be sterilized by Autoclave, ETO , or Gamma Rays.

We can offer Silicone Tubes of any sizes ranging from 0.5 mm ID to 255 mm ID.

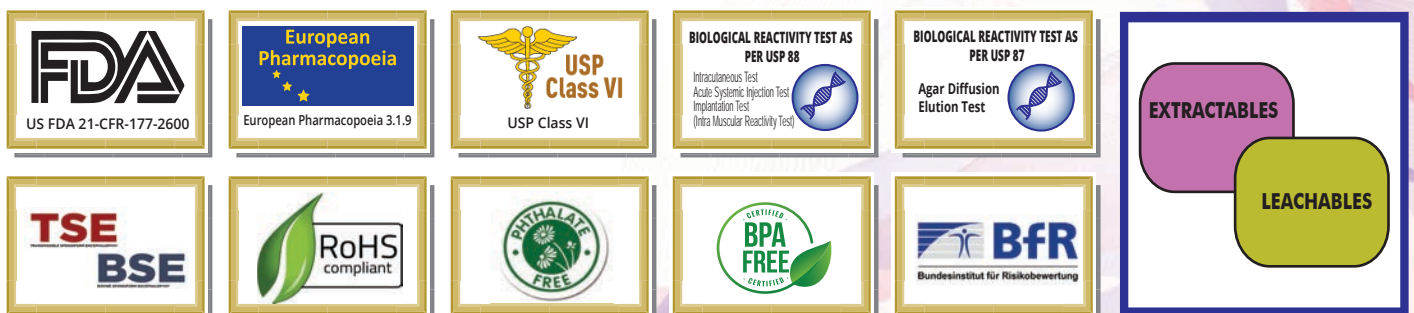
FEATURES

- ❖ Manufactured in a Certified Class 10000 Clean Room Facility.
- ❖ Excellent control for Critical Dimensions.
- ❖ Manufactured from Certified Raw Materials.
- ❖ Every Lot is tested as per US FDA 21 CFR 177-2600.
- ❖ GMP Certified facility.
- ❖ Excellent Flexibility along with flex crack resistance.
- ❖ Excellent Transparency with no odour and taste.

TEST CERTIFICATE

US FDA 21 CFR 177-2600
 EP 3.1.9
 USP Class VI
 USP (87) and (88)
 Cytotoxicity
 TSE/BSE Certificate
 Extractable and Leachable Studies
 (Available on request)

COMPLIANCE & CERTIFICATIONS



**PLATINUM CURED SILICONE TUBES -
CATALOGUE NUMBERS AND STANDARD SIZES**

SIZES				Catalogue Numbers	
Tubing ID		Tubing OD		Food & Pharma	Regulatory
MM	INCH	MM	INCH		
1.6	1/16	3.17	1/8	PTG0160317	PTR0160317
2.0	5/64	4.00	5/32	PTG0200400	PTR0200400
2.00	5/64	5.00	13/64	PTG0200500	PTR0200500
3.00	1/8	6.00	¼	PTG0300600	PTR0200600
3.00	1/8	7.00	9/32	PTG0300700	PTR0300700
3.00	1/8	8.00	5/16	PTG0300800	PTR0300800
4.00	5/32	6.00	¼	PTG0400600	PTR0300600
4.00	5/32	7.00	9/32	PTG0400700	PTR0400700
4.00	5/32	8.00	5/16	PTG0400800	PTR0400800
4.00	5/32	9.00	23/64	PTG0400900	PTR0400800
4.00	5/32	10.00	25/64	PTG0401000	PTR0401000
5.00	13/64	8.00	5/16	PTG0500800	PTR0500800
5.00	13/64	9.00	23/64	PTG0500900	PTR0500900
5.00	13/64	10.00	25/64	PTG0501000	PTR0501000
6.00	1/4	8.00	5/16	PTG0600800	PTR0600800
6.00	1/4	9.00	23/64	PTG0600900	PTR0600900
6.00	1/4	10.00	25/64	PTG0601000	PTR0601000
6.00	1/4	11.00	7/16	PTG0601100	PTR0601100
6.00	1/4	12.00	15/32	PTG0601200	PTR0601200
7.00	9/32	11.00	7/16	PTG0701100	PTR0701100
8.00	5/16	11.00	7/16	PTG0801100	PTR0801100
8.00	5/16	12.00	15/32	PTG0801200	PTR0801200
8.00	5/16	14.00	35/64	PTG0801400	PTR0801400
8.00	5/16	16.00	5/8	PTG0801600	PTR0801600
9.00	23/64	15.00	19/32	PTG0901500	PTR0901500
9.00	23/64	16.00	5/8	PTG0901600	PTR0901600
10.00	25/64	14.00	35/64	PTG1001400	PTR1001400
10.00	25/64	16.00	5/8	PTG1001600	PTR1001600
10.00	25/64	18.00	45/64	PTG1001800	PTR1001800
12.00	15/32	16.00	5/8	PTG1201600	PTR1201600
12.00	15/32	18.00	45/64	PTG1201800	PTR1201800
12.00	15/32	20.00	25/32	PTG1202000	PTR1202000
15.00	19/32	21.00	53/64	PTG1502100	PTR1502100
16.00	5/8	24.00	15/16	PTG1602400	PTR1602400
19.00	3/4	25.00	0.984	PTG1902500	PTR1902500
19.00	3/4	27.00	1 -1/16	PTG1902700	PTR1902700
25.00	0.984	31.00	1.7/32	PTG2503100	PTR2503100
25.00	0.984	35.00	1.3/8	PTG2503500	PTR2503500
25.00	0.984	37.00	1.457	PTG2503700	PTR2503500

ETISIL® PEROXIDE CURED SILICONE TUBES



ETISIL® Peroxide cured tubes are manufactured from US FDA approved raw material and the final products are tested as per USP 21 CFR-177-2600. It is generally used by Food and Pharmaceutical manufacturers for transfer of sterile formulations and food products. Peroxide tubes have excellent mechanical properties and can withstand a temperature of -65° C to 200° C.

It can be sterilized by Autoclave, ETO or Gamma Rays.

We can also customize the tubing according to the customer specifications.

FEATURES

- ❖ Manufactured in a Certified Class 10000 Clean Room Facility.
- ❖ Excellent control for Critical Dimensions.
- ❖ Manufactured from Certified Raw Materials.
- ❖ Every Lot is tested as per US FDA 21 CFR 177-2600.
- ❖ Excellent Transparency with no odour and taste.
- ❖ Available with FDA compliant color coding for ease identification.
- ❖ Excellent physical properties like tear strength and compression set.

COMPLIANCE & CERTIFICATIONS



**PEROXIDE CURED SILICONE TUBES
CATALOGUE NUMBERS AND STANDARD SIZES**

SIZES				Catalogue Numbers	
MM	INCH	MM	INCH	Food & Pharma	
1.6	1/16	3.17	1/8	POG0160317	
2.0	5/64	4.00	5/32	POG0200400	
2.00	5/64	5.00	13/64	POG0200500	
3.00	1/8	6.00	¼	POG0300600	
3.00	1/8	7.00	9/32	POG0300700	
3.00	1/8	8.00	5/16	POG0300800	
4.00	5/32	6.00	¼	POG0400600	
4.00	5/32	7.00	9/32	POG0400700	
4.00	5/32	8.00	5/16	POG0400800	
4.00	5/32	9.00	23/64	POG0400900	
4.00	5/32	10.00	25/64	POG0401000	
5.00	13/64	8.00	5/16	POG0500800	
5.00	13/64	9.00	23/64	POG0500900	
5.00	13/64	10.00	25/64	POG0501000	
6.00	1/4	8.00	5/16	POG0600800	
6.00	1/4	9.00	23/64	POG0600900	
6.00	1/4	10.00	25/64	POG0601000	
6.00	1/4	11.00	7/16	POG0601100	
6.00	1/4	12.00	15/32	POG0601200	
7.00	9/32	11.00	7/16	POG0701100	
8.00	5/16	11.00	7/16	POG0801100	
8.00	5/16	12.00	15/32	POG0801200	
8.00	5/16	14.00	35/64	POG0801400	
8.00	5/16	16.00	5/8	POG0801600	
9.00	23/64	15.00	19/32	POG0901500	
9.00	23/64	16.00	5/8	POG0901600	
10.00	25/64	14.00	35/64	POG1001400	
10.00	25/64	16.00	5/8	POG1001600	
10.00	25/64	18.00	45/64	POG1001800	
12.00	15/32	16.00	5/8	POG1201600	
12.00	15/32	18.00	45/64	POG1201800	
12.00	15/32	20.00	25/32	POG1202000	
15.00	19/32	21.00	53/64	POG1502100	
16.00	5/8	24.00	15/16	POG1602400	
19.00	3/4	25.00	0.984	POG1902500	
19.00	3/4	27.00	1 -1/16	POG1902700	
25.00	0.984	31.00	1.7/32	POG2503100	
25.00	0.984	35.00	1.3/8	POG2503500	
25.00	0.984	37.00	1.457	POG2503700	

ETISIL® PLATINUM BRAIDED SILICONE TUBE REINFORCED WITH POLYESTER YARN

ETISIL® Platinum Braided silicone hoses are reinforced with Polyester Yarn and are suitable for High Pressure applications. ETISIL Platinum Braided silicone hoses are tested as per standard testing methods and certificates are available.

The Hoses are supplied with US FDA 21 CFR 177-2600 Certificates.

The Hoses have Excellent Bend radius and available with or without Tri Clover End Connections.

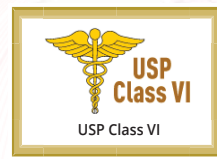
ETISIL® Platinum Braided Silicone Hose can withstand temperature of -50° c to + 200° c

APPLICATIONS

- ❖ Fluid transfer under pressure in Pharmaceutical and Biotech manufacturing
- ❖ Critical Fluid transfer
- ❖ Cell Culture
- ❖ Food and Beverages Industries
- ❖ Biotechnology



COMPLIANCE & CERTIFICATIONS



CATALOGUE NUMBERS OF POLYESTER REINFORCED HOSES

Cat. No	ID X OD in mm	ID in Inch	Working Pressure	Burst Pressure	Bend Radius
BP1306	06 X 13	1/4	9 kg/cm ²	30 kg/cm	50 mm
BP1608	08 X 16	11/32	8 kg/cm ²	25 kg/cm	50 mm
BP2212	12 X 22	1/2	5 kg/cm ²	20 kg/cm	80 mm
BP2416	16 X 24	5/8	5 kg/cm ²	20 kg/cm	100mm
BP2719	19 x 27	3/4	4.5 kg/cm ²	18 kg/cm	120 mm
BP3525	25 X 35	1"	4 kg/cm ²	10 kg/ cm	150 mm
BP3725	25 X 37	1"	5 kg/cm	11 kg/cm	160 mm
BP4232	32 X 42	1.1/4	3.kg/cm ²	9 kg/cm	200 mm
BP4838	38 X 48	1.1/2	2.2 kg/cm ²	7 kg/cm	--
BP6250	50 X 62	2.	2 kg/cm	5 kg/cm	--

ETISIL® Platinum Braided silicone hoses upto **90 mm ID** also available.



ETISIL® PLATINUM CURED SILICONE HOSE REINFORCED WITH SS 316 HELICAL WIRE

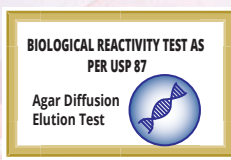
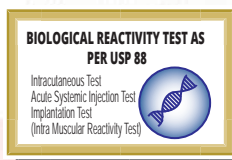
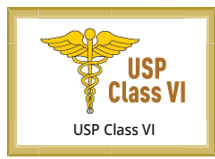


ETISIL® Helical wire braided silicone hose are manufactured from Platinum cured rubber and SS 316 L wire. It is used in Pharmaceutical companies and Food and Beverages Industries to transfer sterile fluid under High Vacuum Applications. The products are tested as per USP 21 CFR -177-600 and other specified Biological tests.

APPLICATIONS

- ❖ Transfer of Sterile fluids in Pharmaceutical Industries
- ❖ Food and Beverages Industries
- ❖ High Vacuum applications
- ❖ Bulk transfer of materials
- ❖ Biotechnology labs and industries

COMPLIANCE & CERTIFICATIONS

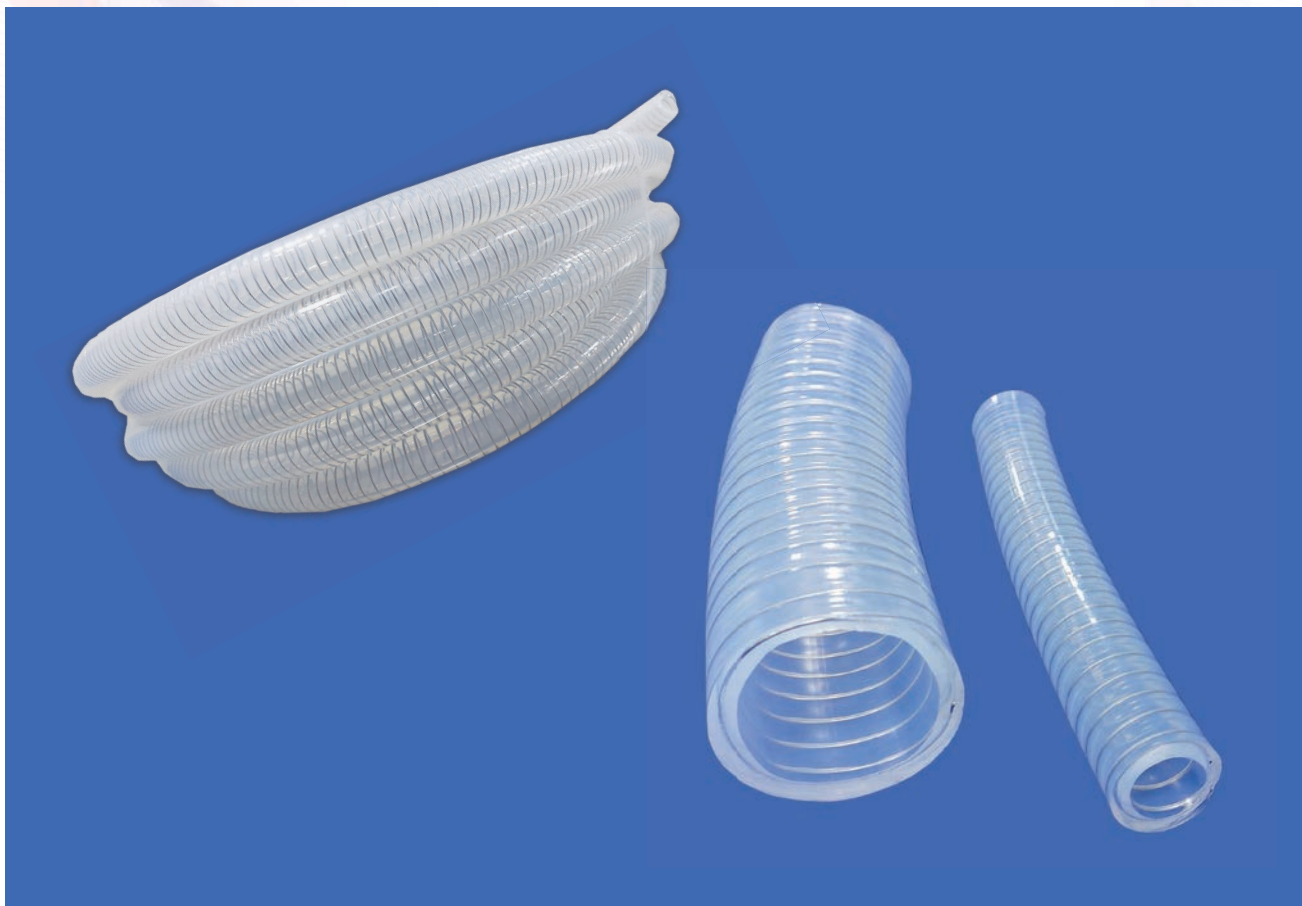


ETISIL® PLATINUM CURED SILICONE HELICAL WIRE BRAIDED HOSE

CATALOGUE NUMBERS

Cat. No	ID X OD in mm	ID in Inch	Working Pressure	Vacuum mm Hg	Bend Radius
BH1306	06 X 13	1/4	11 kg/cm ²	760	50 mm
BH1608	08 X 16	11/32	10 kg/cm ²	760	50 mm
BH2212	12 X 22	1/2	9 kg/cm ²	760	80 mm
BH2416	16 X 24	5/8	9 kg/cm ²	760	100mm
BH2719	19 x 27	3/4	8 kg/cm ²	760	120 mm
BH3525	25 X 35	1"	8 kg/cm ²	760	150 mm
BH3725	25 X 37	1"	9 kg/cm	760	160 mm
BH4232	32 X 42	1.1/4	7 kg/cm ²	500	200 mm
BH4838	38 X 48	1.1/2	6 kg/cm ²	500	--
BH6250	50 X 62	2"	5 kg/cm	350	--

ETISIL® Helical wire braided silicone hoses upto **100 mm ID** also available.



ETISIL® PLATINUM CURED SILICONE HOSE REINFORCED WITH POLYESTER YARN AND SS HELICAL WIRE

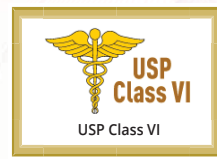


ETISIL® Platinum cured braided silicone hose reinforced with Polyester Yarn and SS Helical wire is suitable for vacuum and pressure applications. It is available in continuous length or in cut length with suitable end connections. ETISIL Platinum cured braided hose reinforced with Polyester yarn and SS Helical wire has High Burst pressure rating and Vacuum rating.

APPLICATIONS

- ❖ Powder and Fluid transfer in Pharmaceutical Process.
- ❖ Food and Beverage Industries
- ❖ High Vacuum Applications
- ❖ Biotechnology
- ❖ Bulk Transfer
- ❖ High Pressure Applications

COMPLIANCE & CERTIFICATIONS



**ETISIL® PLATINUM CURED SILICONE HOSE
WITH POLYESTER YARN AND HELICAL WIRE**

CATALOGUE NUMBER

Cat. No	ID X OD in mm	ID in Inch	Working Pressure	Vacuum mm Hg	Bend Radius
BPH1306	06 X 13	1/4	12 kg/cm ²	760	50 mm
BPH1608	08 X 16	11/32	12 kg/cm ²	760	50 mm
BPH2212	12 X 22	1/2	10 kg/cm ²	760	80 mm
BPH2416	16 X 24	5/8	9.5 kg/cm ²	760	100mm
BPH2719	19 x 27	3/4	9 kg/cm ²	760	120 mm
BPH3525	25 X 35	1"	8 kg/cm ²	760	150 mm
BPH3725	25 X 37	1"	9 kg/cm	760	160 mm
BPH4232	32 X 42	1.1/4	8 kg/cm ²	500	200 mm
BPH4838	38 X 48	1.1/2	7 kg/cm ²	500	200 mm
BPH6250	50 X 62	2.	5 kg/cm	350	300 mm

- ❖ Available with Tri clover End Connection
- ❖ Sterilizable by Autoclave, ETO and Gamma Rays
- ❖ Excellent Temperature Resistant



ETISIL® Platinum Cured Silicone Hose Reinforced with Multiple Layers of Polyester Fabric & SS 316 L Helical wire

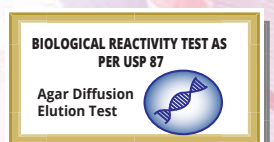
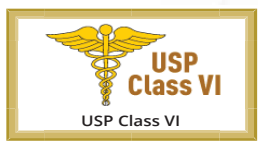


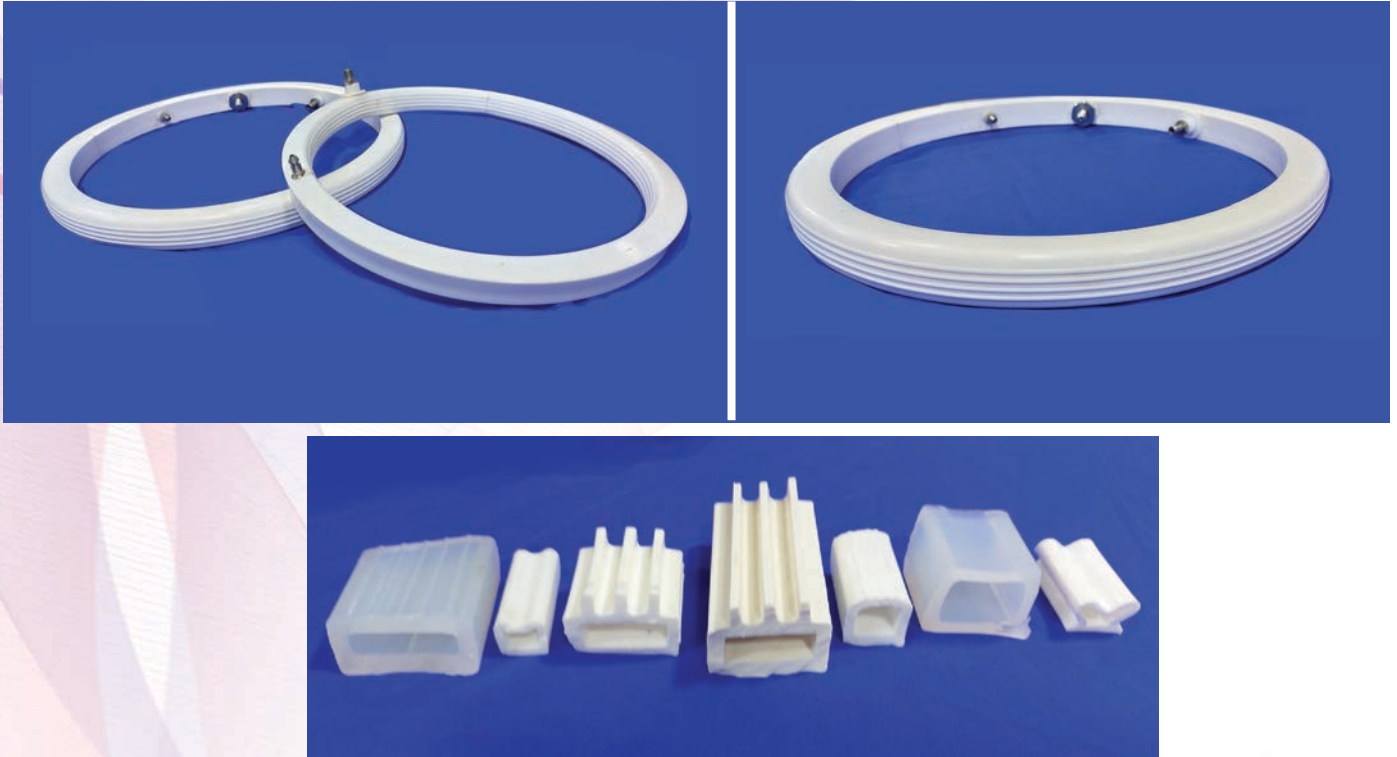
These Hoses have multiple layer of fabric to withstand higher level of burst pressure.

APPLICATIONS

- ❖ High Pressure Steam Transfer
- ❖ Food Processing
- ❖ Bulk Powder Transfer
- ❖ Fermentations & Bioreactors

COMPLIANCE & CERTIFICATIONS





FBD GASKETS (FLUID BED DRYER)

ETISIL® SILICONE INFLATABLE GASKETS ARE AVAILABLE TO SUIT WITH ALL DOMESTIC & INTERNATIONAL MAKE FLUID BED DRYERS

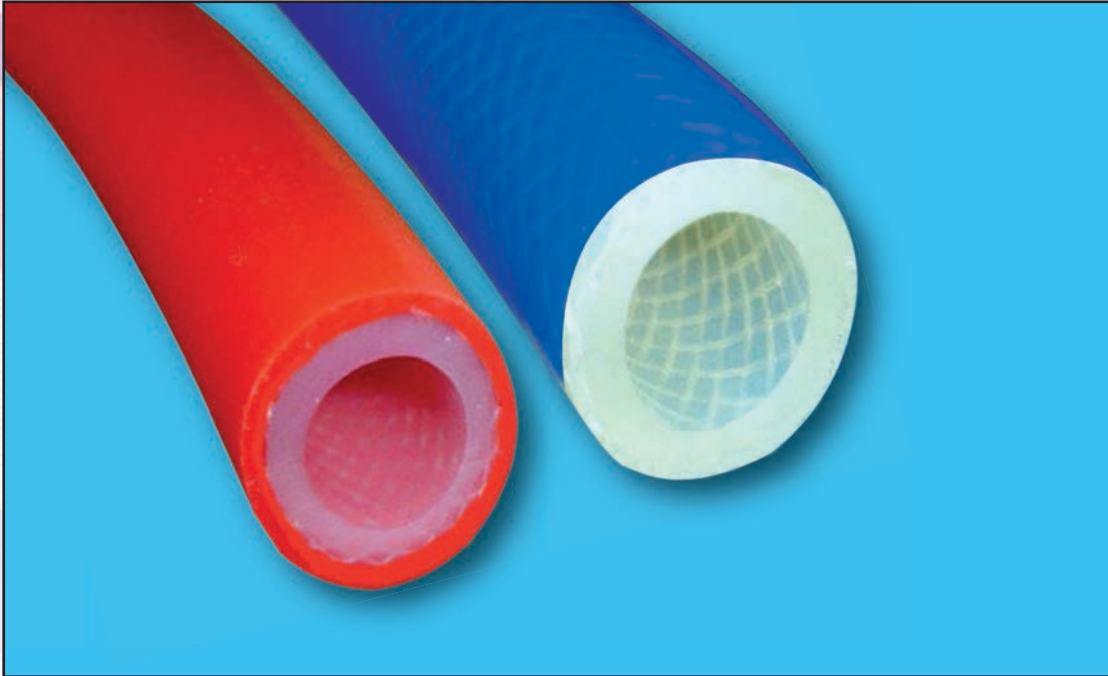
APPLICATIONS

- ❖ FLUID BED DRYERS / PROCESSORS / COATERS
- ❖ RAPID MIXERS GRANULATORS
- ❖ POWDER AND BULK SOLID HANDLING MACHINES

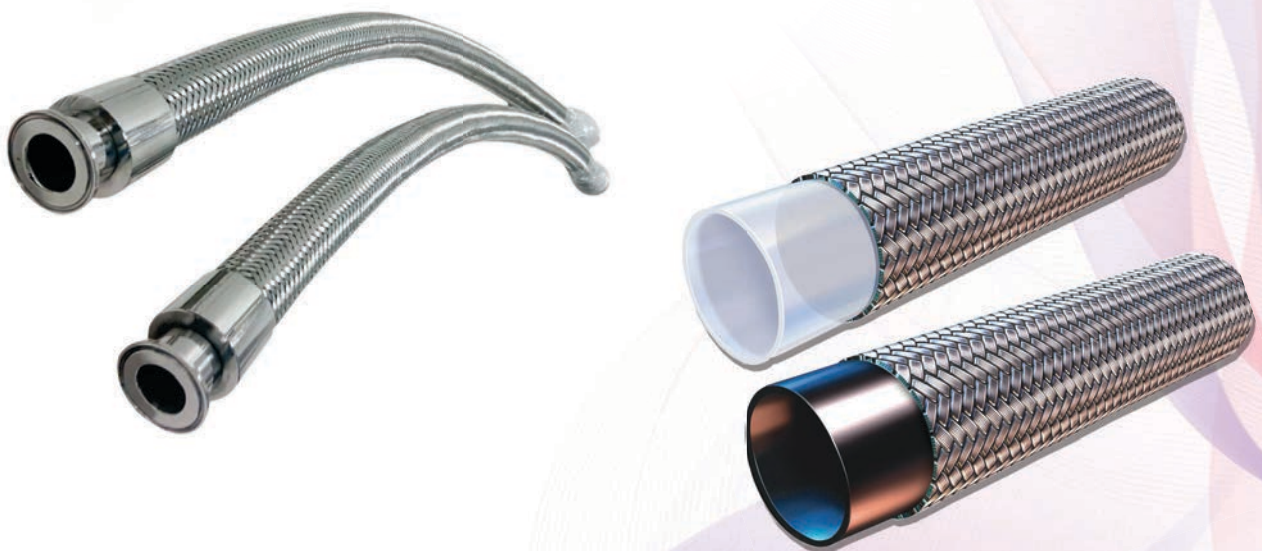
COMPLIANCE & CERTIFICATIONS



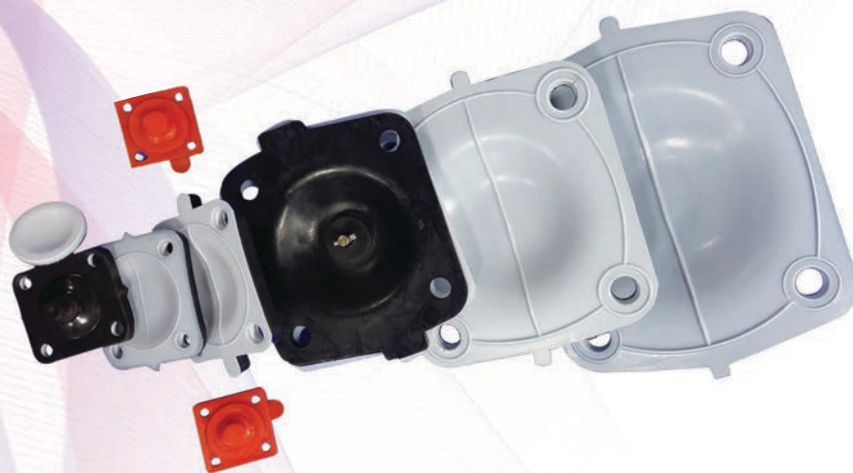
**ETISIL® Double Colour Silicone Braided Hose
(Inner Transparent and Outer Colour Blue / Red)**



**ETISIL® Silicone Tubes with Full SS Covering
with/without End connections**



**ETISIL® Silicone / EPDM Diaphragms
with or without PTFE**



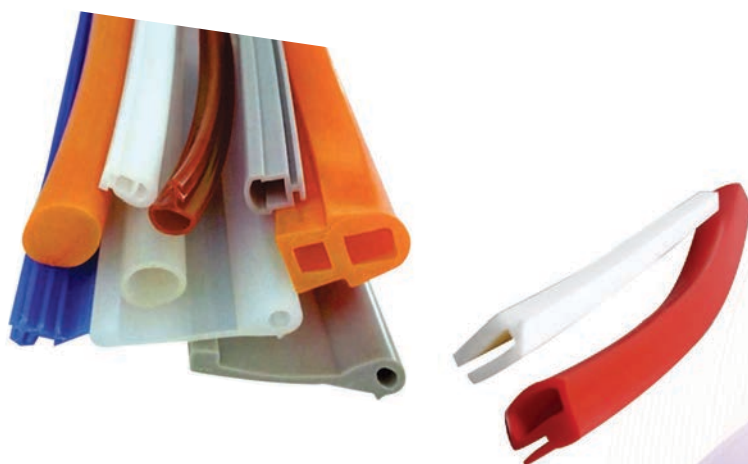
ETISIL® Silicone Moulded Bellows



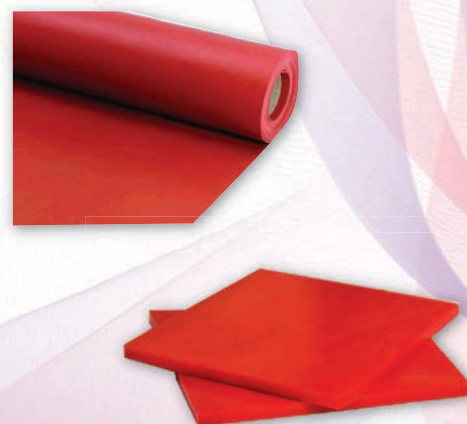
ETISIL® SS 316 Stirrer Blades



ETISIL® Silicone Extruded Profiles



ETISIL® Rubber Sheet



ETISIL® Tri Clover Gaskets (TC Gaskets)



- 1) Made from Platinum Grade Silicon Rubber & PTFE.
- 2) Confirm to FDA 21 CFR 177.2600.
- 3) Available in Transparent / White Color.

TYPES

- ❖ Standard Tri-Clover with or without collar.
- ❖ PTFE Enveloped Gaskets.
- ❖ Tri-Clover Gasket with SS Mesh.
- ❖ Sensor Tri-Clover Gaskets.
- ❖ Validation Tri-Clover Gaskets.

STANDARD SIZES

NORMAL SIZE	E1	E2	E3
1/2"	34.0	27.5	10.9
1/2" A (Mini)	22.0	17.0	09.5
3/4"	34.0	27.5	15.4
1"	50.5	43.5	22.8
1½"	50.5	43.5	35.8
2"	64.0	56.5	48.8
2½"	77.5	70.5	60.5
3"	91.0	83.5	73.1
4"	118.0	110.0	96.0

Our Clients



BHARAT SERUMS AND VACCINES LIMITED



Biological E. Limited
Celebrating Life Every Day





CORPORATE OFFICE / FACTORY



104, 105, 106, Bld No. 5 A, Rajprabha Mohan Industrial Estate, Naikpada,
Opp Minakshi Industrial Estate, Near Apple Studio Raychem, Village Waliv, Vasai (East) – 401 208
Dist-Palghar, Maharashtra, India.

Quotation & Technical Assistance & R&D (New Development)

Prasad Shetty

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