Versilic® Silicone Tubing



BIOPHARMACEUTICAL PRODUCTS

For biopharmaceutical applications

Für Biopharmazeutische Anwendungen

Pour applications biopharmaceutiques et sanitaires

Versilic® Silicone Tubing

Versilic® 60 shore tubing is biologically inert and does not inhibit cell culture. It stays flexible down to -50°C and maintains its chemical, mechanical and electrical performance up to +200°C.

Versilic® meets the European Pharmacopoeia requirements for silicone elastomer for closures and tubing, USP Class VI biological tests and ISO 10993 biocompatibility (systemic toxicity, irritation, sensitization, citotoxicity, hemocompatibility and Ames test). Tubing Compliant with FDA regulations CRF 177.2600.

Versilic® Silikon Schläuche

Versilic® – Schläuche mit dem Härtegrad Shore 60 sind biologisch inert und besitzen keine hemmenden Zellkulturen. Sie bleiben bis zu -50°C biegsam und bewahren ihre chemische, mechanische und elektrischen Eigenschaften bis zu +200°C.

Sie erfüllen die chemischen Testanforderungen der Europäischen Pharmakopoe, die biologischen Tests der US – Pharmakopia Klasse VI und die Biokompatibilitätserfordernisse der Norm ISO 10993 (Allgemeine Toxizität, Reizung, Sensibilisierung, Zytotoxizität , Hämokompatibilität, sowie den Ames Test). Erfüllt die FDA-Vorschriften CRF 177.2600.

Tube Silicone Versilic®

D'une dureté Shore de 60, le tube silicone Versilic® est biologiquement inerte et favorise la culture de cellules. Il reste flexible jusqu'à -50°C et conserve ses performances chimiques, mécaniques et électriques jusqu'à +200°C.

Le Versilic® est conforme aux tests de la pharmacopée européenne, aux tests biologiques de l'USP classe VI et aux exigences de biocompatibilité la norme ISO 10993 (toxicité, systèmique, irritation, sensibilisation, cytotoxicité, hémolyse et tests d'Ames). Ce tube est conforme aux règlements de la FDA CRF 177.2600.

Features and Benefits

- Peroxide-cured silicone
- Biological neutrality
- FDA
- US and European Pharmacopoeia
- Temperature resistance -50°C /+200°C

Eigenschaften und Nutzen

- Mit peroxid vernetztes Silikon
- Biologisch neutral
- FDA
- US und Europäische Pharmakopoe
- Temperaturbestindigkeit -50°C /+200°C

Caractéristiques et avantages

- Silicone peroxyde
- Neutralité biologique
- FDA
- Conforme aux Pharmacopées américaines et Européenes
- Résiste à des températures comprises entre -50°C /+200°C

DOMINIQUE DUTSCHER SAS

Versilic® Silicone Tubing

General Characteristics/Allgemeine Eigenschaften/Caractéristiques Générales

Basic Composition/Grundstoffe/Formulation de base

Basic elastomer/Basiselastomer/Elastomère de base	Silicone/Silikon
Catalyst/Katalysator/Catalyseur	Peroxide/Peroxid/Peroxyde
Fillers/Füllstoff/Charges	Mineral fillers/Mineralfüllstoff/Charges minérales

Typical Physical Properties/Physikalishce Eigenschaften/Propriétés physiques

Color/Farbe/Couleur	Translucent/Transparent
Specific gravity/Spezifisches Gewicht/Densité	1,15+ / -0,03
Hardness/Härte/Dureté (Shore A; 15s)	62+ / -5
Tensile Strength/Reissfestigkeit/Résistance à la rupture (MPa)	≥ 7,5
Ultimate Elongation\Reissdehnung/Allongement à la rupture (%)	≥ 270
300 Modulus/Modul 300/Module 300 (MPa)	7,7+ / -1,5

Temp. Resistance/Temperaturbeständigkeit/Tenue Température: -50°C /+200°C

Up to/Kurzfristig bis/Pointes possibles	230°C

Pharmacopoea/Pharmakopoe/Pharmacopée

European Pharmacopoea/Europäische Pharmakopoe/Pharmacopée Européene	Compliant/Zugelassen/Conforme
USP (Class VI)/U.S. Pharmakopoe (Class VI)/Pharmacopée américaine (Class VI)	Compliant/Zugelassen/Conforme

Food Grade Certifications/Lebensmittelzertifizierung/Alimentarité

USA (FDA; 21CFR part 177-2600)	Compliant/Zugelassen/Conforme

Usage/Anwendungen/Applications

Tubing for biopharmaceutical and medical applications/Schlauch für paramedizinische Anwendungen/Tube pour applications biopharmaceutiques et médicales.

Sterilization/Stérilisation

Steam/Dampf/Vapeur d'eau (134°C @ 18 mn)	Appropriate/Geeignet/Approprié
Ethylene oxide/Ethylenoxyd/Oxyde d' éthylène	Appropriate/Geeignet/Approprié
Irradiation/Bestrahlung/Irradiation	Appropriate/Geeignet/Approprié

Versilic® Silicone Tubing

Standard Sizes/Standard Durchmesser/Tailles Standard

I.D. I.D. D.I.	w.th. W.st. ep.	O.D. A.D. D.E.	50 meters 50 meter 50 mètres	25 meters 25 metres 25 mètres	10 meters 10 metres 10 mètres
0,5	1,0	2,5	760010	—	—
1,0	1,0	3,0	760070	—	—
1,5	0,75	3,0	760110	—	—
2,0	1,0	4,0	760160	—	—
2,0	1,75	5,5	760170	—	—
2,0	2,0	6,0	760180	—	—
3,0	1,0	5,0	760210	—	760210-10
3,0	1,25	5,5	760220	—	—
3,0	1,5	6,0	760230	—	760230-10
3,0	2,0	7,0	760250	—	—
4,0	1,0	6,0	760320	—	760320-10
4,0	1,5	7,0	—	760330	—
4,0	2,0	8,0	—	760350	760350-10
4,0	3,0	10,0	—	760360	—
5,0	1,0	7,0	—	760410	
5,0	1,5	8,0	—	760420	760420-10
5,0	2,0	9,0	—	760430	—
5,0	2,5	10,0	—	760440	—
6,0	1,0	8,0	—	760490	
6,0	1,5	9,0	—	760500	760500-10
6,0	2,0	10,0	—	760510	760510-10
6,0	3,0	12,0	—	760520	760520-10
7,0	1,5	10,0	—	760570	760570-10
7,0	2,0	11,0	—	760580	—
7,0	2,5	12,0	—	760581	760581-10
7,0	3,0	13,0	—	760590	—
8,0	1,5	11,0	—	760630	—
8,0	2,0	12,0	—	760650	760650-10
8,0	3,0	14,0	—	760670	760670-10
8,0	4,0	16,0	—	760690	760690-10
8,5	1,75	12,0	—	760720	—
9,0	2,0	13,0	—	760730	—
10,0	2,0	14,0	—	760770	760770-10
10,0	3,0	16,0	—	760800	760800-10
10,0	4,0	18,0	—	760810	760810-10
10,0	6,5	23,0	—	760820	—
12,0	1,75	15,5	—	760870	—
12,0	2,5	17,0	—	760880	—
15,0	3,0	21,0	—	761050	—
18,0	3,0	24,0	—	—	761080
20,0	3,5	27,0	—	—	761100
25,0	5,0	35,0	—	—	761150
30,0	5,0	40,0	—	—	761170
40,0	5,0	50,0	—	—	761190
50,0	5,0	60,0	—	—	761270

Special grades and sizes are available upon request.
Sondergrade und Durchmesser nach Angrage.
Grades et dimensions spéciales disponibles sur demande.

VERSILIC® SILICONE TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL

DOMINIQUE DUTSCHER SAS

BIOPHARMACEUTICAL PRODUCTS

Come through clean.℠

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SAINT-GOBAIN

Versilic® is a registered trademark.

IMPORTANT: *It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.*

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

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