

# VERSITEC®



## Versitec® tubing

Versitec® is a high quality industrial silicone used in food industry, household electrical appliances, electrical industry and in drink dispensers. The Versitec® tubing is translucent, water-repellent and anti-adhesive. It presents an exceptional resistance to UV rays, oxygen and ozone; like all silicones, it is permeable. The technical performance of the Versitec® tubing, together with its effectiveness make it the ideal means of transferring high purity or high-tech fluids.

The Versitec® tubing is available from stock and comes in 40 sizes.

## Tuyau Versitec®

Le Versitec®, silicone industriel d'excellente qualité, est utilisé en agro-alimentaire, en électroménager, en industrie électrique et dans les distributeurs de boissons.

De teinte translucide, le tuyau Versitec® est hydrophobe et anti-adhérent. Il présente une résistance exceptionnelle aux UV, à l'oxygène, à l'ozone, à basse ou haute température. Comme tous les silicones, il est perméable aux gaz.

Les performances techniques du tuyau Versitec®, alliées à des conditions économiques intéressantes en font un outil de choix pour le transfert de fluides alimentaires, fragiles ou de haute technicité.

Le tuyau Versitec® est disponible, sur stock en 40 dimensions.

## Versitec® Schlauch

Versitec®, ein hochwertiges industrielles Silikon findet seine Anwendung in der Nahrungsmittel- und Elektroindustrie, in Elektrogeräten und Getränkeautomaten. Versitec® Schlauch ist durchscheinend, wasserabweisend und haftet nicht.

Er besitzt eine außergewöhnliche Beständigkeit gegen UV, Sauerstoff und Ozon. Wie alle Silikone ist er gasdurchlässig.

Die technischen Leistungen des Schlauches Versitec®, verbunden mit interessanten, wirtschaftlichen Bedingungen, machen aus ihm ein Instrument erster Wahl für die Überführung von empfindlichen oder hochtechnischen Fluiden und Lebensmittel Flüssigkeiten.

Der Schlauch Versitec® ist auf Lager verfügbar in 40 Abmessungen.

## Versitec® tubing

## Tuyau Versitec®

## Versitec® Schlauch

## Features and Benefits

- Peroxide cured silicone
- Compliant with food standards French, German (BfR) and American (FDA)
- Electrical insulation
- Thermal resistance: -50°C to +200°C continuous, +220°C peak

## Caractéristiques et avantages

- Silicone péroxide
- Conforme aux normes d'alimentarité Française, Américaine (FDA) et Allemande (BfR)
- Isolation électrique
- Résistance thermique entre -50°C et +200°C en continu, 220°C en pointe

## Eigenschaften und Nutzen

- Peroxidsilikon
- Entspricht den Lebensmittelnormen (BfR/FDA)
- Elektrische Isolation
- Temperaturstandfestigkeit zwischen -50°C und +200°C stetig, 220°C kurzfristig

**Typical physical properties of Versitec®**  
**Propriétés physiques du Versitec®**  
**Typische physikalische Eigenschaften von Versitec®**

| Dimensions/Sizes/Größen |          |                        | Minimum Bend Radius<br>Rayon de courbure<br>Mindestbiegeradius |
|-------------------------|----------|------------------------|--|
| mm                      |          |                        |  |
| ID/DI                   | OD/DE/AD | Wall Thickness/EP/Wand | mm   |
| 0,5                     | 2,5      | 1,0                    | 1  |
| 1,0                     | 3,0      | 1,0                    | 2  |
| 1,5                     | 3,0      | 0,75                   | 4  |
| 2,0                     | 4,0      | 1,0                    | 7  |
| 2,0                     | 5,5      | 1,75                   | 3  |
| 2,0                     | 6,0      | 2,0                    | 3  |
| 3,0                     | 5,0      | 1,0                    | 8  |
| 3,0                     | 6,0      | 1,5                    | 7  |
| 3,0                     | 7,0      | 2,0                    | 5  |
| 4,0                     | 6,0      | 1,0                    | 15   |
| 4,0                     | 7,0      | 1,5                    | 10   |
| 4,0                     | 8,0      | 2,0                    | 8  |
| 4,0                     | 10,0     | 3,0                    | 6  |
| 5,0                     | 7,0      | 1,0                    | 25   |
| 5,0                     | 8,0      | 1,5                    | 16   |
| 5,0                     | 9,0      | 2,0                    | 14   |
| 5,0                     | 10,0     | 2,5                    | 11   |
| 6,0                     | 8,0      | 1,0                    | 36   |
| 6,0                     | 9,0      | 1,5                    | 26   |
| 6,0                     | 10,0     | 2,0                    | 19   |
| 6,0                     | 12,0     | 3,0                    | 12   |
| 7,0                     | 10,0     | 1,5                    | 32   |
| 7,0                     | 11,0     | 2,0                    | 23   |
| 7,0                     | 12,0     | 2,5                    | 18   |
| 7,0                     | 13,0     | 3,0                    | 15   |
| 8,0                     | 11,0     | 1,5                    | 35   |
| 8,0                     | 12,0     | 2,0                    | 28   |
| 8,0                     | 14,0     | 3,0                    | 18   |
| 8,0                     | 16,0     | 4,0                    | 14   |
| 9,0                     | 13,0     | 2,0                    | 39   |
| 10,0                    | 14,0     | 2,0                    | 46   |
| 10,0                    | 16,0     | 3,0                    | 30   |
| 10,0                    | 18,0     | 4,0                    | 26   |
| 12,0                    | 17,0     | 2,5                    | 47   |
| 15,0                    | 21,0     | 3,0                    | 70   |
| 18,0                    | 24,0     | 3,0                    | 87   |
| 20,0                    | 27,0     | 3,5                    | 102  |
| 25,0                    | 35,0     | 5,0                    | 111  |
| 30,0                    | 40,0     | 5,0                    | 204  |
| 40,0                    | 50,0     | 5,0                    | 270  |

| Typical Physical Properties/Propriétés physiques/<br>Typische physikalische Eigenschaften   | ASTM Method         | Value/<br>Valeur/Wert                        |
|---|---------------------|--|
| Hardness/Dureté/Härte Shore A , 15 sec  | D2240-02            | 57   |
| Color/Couleur/Farbe   |                     | translucent/<br>translucide/<br>durchsichtig |
| Tensile Strength/Résistance à la rupture/<br>Zugfestigkeit, psi (MPa)   | D412-98             | 870 (> 6,4)                                  |
| Ultimate elongation/Allongement à la rupture/<br>Maximale Dehnung (%)   | D412-98             | > 290  |
| Tear resistance/Résistance au déchirement/<br>Reißfestigkeit lb.-f/in (kN/m)  | D1004-94            | 69 (12)                                      |
| Specific Gravity/Densité/Dichte   | D792-00             | 1,15   |
| Water Absorption/Absorption d'eau/<br>Wasserabsorption (%)  | D570-98             | 0,1  |
| Compression set constant deflection/<br>Déformation rémanente à la compression/<br>Druckverformungstest Konstante<br>Durchbiegung/(% at 70°C during 22 hours) | D395-01<br>Method B | 2,3  |
| Brittle Temperature/Température de fragilisation/<br>Versprödungtemperatur (°C)   | D746-98             | -50  |
| Maximum recommended operating temperature/<br>Température de service maximale recommandée/<br>Empfohlene maximale Betriebstemperatur (°C)                     |                     | 200  |

| Sterilization Method/Procédés de Stérilisation/Sterilisationsverfahren |                        |  |
|--|------------------------|--|
| Autoclavable/Autoklavierbar <sup>(1)</sup>                             | Gas/Gaz <sup>(2)</sup> | Radiation/Irradiation/Bestrahlung <sup>(3)</sup> |
| yes/oui/Ja   | yes/oui/Ja             | yes/oui/Ja                                       |

- (1) Steam 30 minutes at 1 bar (141°C)/Vapeur 30 minutes à 1 bar (141°C)/30 Minuten Dampf mit einem Druck von 1 Bar (141°C)  
(2) Ethylene oxide/Oxyde d'éthylène/Ethylenoxid  
(3) Radiation up to 2,5 MRad/Irradiation jusqu'à 2,5 MRad/Bestrahlung bis zu 2,5 MRad

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**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.

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