

# Sani-Tech® Ultra-C Sani-Tech® Ultra-65

The latest generation of  
sanitary silicone tubing

## Sani-Tech® Ultra-C and Sani-Tech® Ultra-65

Sani-Tech® Ultra-C and Sani-Tech® Ultra-65 represent the next generation in ultra-pure platinum silicone tubing with ultra-low extractable and longer pump life. These tubings have been designed by our Saint-Gobain Life Sciences R&D team in order to fully comply with the stringent requirements of the biopharmaceutical market. Sani-Tech® Ultra-C and Sani-Tech® Ultra-65 come with laser marked part numbers and lot codes to provide total product traceability.

### Characteristics

Fluid integrity is vitally important in many biopharmaceutical applications. The manufacturing process is carefully controlled from receiving through production. In all our multiple production sites (US, France and India) our tubing is produced and packaged in double bags within an ISO 7 clean room. Ultra-low TOCs ensure that contamination by extractables is kept to an absolute minimum.

### Biocompatible

Sani-Tech® Ultra-C and Sani-Tech® Ultra-65 are manufactured from the finest grade of silicone materials tested to a variety of specifications including:

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USP Class VI

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ISO 10993

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European Pharmacopoeia 3.1.9

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For additional compliance data visit [www.biopharm.saint-gobain.com](http://www.biopharm.saint-gobain.com) to download Validation Guide Summary or contact our customer service department.

### Features / Benefits

- Two hardnesses available, 50 and 65 Shore
- Multiple manufacturing sites: US, France and India
- Biopharmaceutical grade
- Ultra-low extractables
- Excellent flexibility
- Laser etched for lot traceability
- Superior pump life
- Temperature range from -80°F (-62°C) to 500°F (260°C)
- Validation guide summary
- BPOG extractable report

### Typical Applications

- Sterile fill and transfers
- Drug delivery
- Media/buffer processing
- Pumping
- Cell culture and harvest
- Chromatography
- Final fill
- Filtration and fermentation

## Sani-Tech® Ultra-C Tubing Standard Sizes

| Part Number    | ID    |      | OD    |       | Wall  |      | Burst pressure<br>psi** |
|----------------|-------|------|-------|-------|-------|------|-------------------------|
|                | in.   | mm.  | in.   | mm.   | in.   | mm.  |                         |
| ULTRA-C-012-0* | 0.012 | 0.3  | 0.024 | .61   | 0.006 | 0.2  | 50.9                    |
| ULTRA-C-020-0* | 0.020 | 0.51 | 0.036 | 0.9   | 0.008 | 0.2  | 44.3                    |
| ULTRA-C-025-0* | 0.025 | 0.64 | 0.047 | 1.2   | 0.011 | 0.3  | 47.1                    |
| ULTRA-C-030-0  | 0.030 | 0.76 | 0.066 | 1.7   | 0.018 | 0.5  | 56.3                    |
| ULTRA-C-030-2* | 0.030 | 0.76 | 0.155 | 3.9   | 0.062 | 1.6  | 82.2                    |
| ULTRA-C-040-0* | 0.040 | 1.0  | 0.086 | 2.2   | 0.023 | 0.6  | 55.1                    |
| ULTRA-C-058-0* | 0.058 | 1.5  | 0.076 | 1.9   | 0.009 | 0.2  | 20.7                    |
| ULTRA-C-062-1  | 1.063 | 1.6  | 0.125 | 3.2   | 0.032 | 0.8  | 51.4                    |
| ULTRA-C-062-2  | 1.063 | 1.6  | 0.188 | 4.8   | 0.062 | 1.6  | 70.2                    |
| ULTRA-C-062-3  | 1.063 | 1.6  | 0.25  | 6.4   | 0.093 | 2.4  | 77.8                    |
| ULTRA-C-062-4  | 1.063 | 1.6  | 0.313 | 8.0   | 0.125 | 3.2  | 81.8                    |
| ULTRA-C-062-5  | 1.063 | 1.6  | 0.438 | 11.1  | 0.187 | 4.7  | 85.4                    |
| ULTRA-C-062-6* | 1.063 | 1.6  | 0.563 | 14.3  | 0.25  | 6.4  | 86.9                    |
| ULTRA-C-078-1  | 0.078 | 2.0  | 0.141 | 3.6   | 0.032 | 0.8  | 44.3                    |
| ULTRA-C-078-2  | 0.078 | 2.0  | 0.203 | 5.2   | 0.062 | 1.6  | 64.4                    |
| ULTRA-C-078-3  | 0.078 | 2.0  | 0.266 | 6.8   | 0.093 | 2.4  | 73.8                    |
| ULTRA-C-078-4  | 0.078 | 2.0  | 0.328 | 8.3   | 0.125 | 3.2  | 78.8                    |
| ULTRA-C-078-5* | 0.078 | 2.0  | 0.453 | 11.5  | 0.187 | 4.7  | 83.6                    |
| ULTRA-C-078-6* | 0.078 | 2.0  | 0.578 | 14.7  | 0.25  | 6.4  | 85.8                    |
| ULTRA-C-093-1* | 0.094 | 2.4  | 0.156 | 4.0   | 0.032 | 0.8  | 39.0                    |
| ULTRA-C-093-2* | 0.094 | 2.4  | 0.219 | 5.6   | 0.062 | 1.6  | 59.4                    |
| ULTRA-C-093-3* | 0.094 | 2.4  | 0.281 | 7.1   | 0.093 | 2.4  | 69.9                    |
| ULTRA-C-093-4* | 0.094 | 2.4  | 0.344 | 8.7   | 0.125 | 3.2  | 75.8                    |
| ULTRA-C-093-5* | 0.094 | 2.4  | 0.469 | 11.9  | 0.187 | 4.7  | 81.8                    |
| ULTRA-C-093-6* | 0.094 | 2.4  | 0.594 | 15.1  | 0.25  | 6.4  | 84.5                    |
| ULTRA-C-125-1* | 0.125 | 3.2  | 0.188 | 4.8   | 0.032 | 0.8  | 31.5                    |
| ULTRA-C-125-2* | 0.125 | 3.2  | 0.25  | 6.4   | 0.062 | 1.6  | 50.9                    |
| ULTRA-C-125-3* | 0.125 | 3.2  | 0.313 | 8.0   | 0.093 | 2.4  | 62.7                    |
| ULTRA-C-125-4* | 0.125 | 3.2  | 0.375 | 9.5   | 0.125 | 3.2  | 69.9                    |
| ULTRA-C-125-5* | 0.125 | 3.2  | 0.5   | 12.7  | 0.187 | 4.7  | 77.8                    |
| ULTRA-C-125-6* | 0.125 | 3.2  | 0.625 | 15.9  | 0.25  | 6.4  | 81.8                    |
| ULTRA-C-156-1  | 0.156 | 4.0  | 0.219 | 5.6   | 0.032 | 0.8  | 25.9                    |
| ULTRA-C-156-2  | 0.156 | 4.0  | 0.281 | 7.1   | 0.062 | 1.6  | 44.3                    |
| ULTRA-C-156-3  | 0.156 | 4.0  | 0.344 | 8.7   | 0.093 | 2.4  | 56.3                    |
| ULTRA-C-156-4  | 0.156 | 4.0  | 0.406 | 10.3  | 0.125 | 3.2  | 64.4                    |
| ULTRA-C-156-5* | 0.156 | 4.0  | 0.531 | 13.5  | 0.187 | 4.7  | 73.8                    |
| ULTRA-C-156-6  | 0.156 | 4.0  | 0.656 | 16.7  | 0.25  | 6.4  | 78.8                    |
| ULTRA-C-187-1  | 0.187 | 4.7  | 0.25  | 6.4   | 0.032 | 0.8  | 22.3                    |
| ULTRA-C-187-2  | 0.187 | 4.7  | 0.313 | 8.0   | 0.062 | 1.6  | 39.3                    |
| ULTRA-C-187-3  | 0.187 | 4.7  | 0.375 | 9.5   | 0.093 | 2.4  | 51.1                    |
| ULTRA-C-187-4  | 0.187 | 4.7  | 0.438 | 11.1  | 0.125 | 3.2  | 59.6                    |
| ULTRA-C-187-5* | 0.187 | 4.7  | 0.563 | 14.3  | 0.187 | 4.7  | 69.9                    |
| ULTRA-C-187-6* | 0.187 | 4.7  | 0.688 | 17.5  | 0.25  | 6.4  | 75.8                    |
| ULTRA-C-250-1* | 0.25  | 6.4  | 0.313 | 8.0   | 0.032 | 0.8  | 17.5                    |
| ULTRA-C-250-2  | 0.25  | 6.4  | 0.375 | 9.5   | 0.062 | 1.6  | 29.3                    |
| ULTRA-C-250-3* | 0.25  | 6.4  | 0.438 | 11.1  | 0.093 | 2.4  | 42.5                    |
| ULTRA-C-250-4  | 0.25  | 6.35 | 0.50  | 12.70 | 0.13  | 3.18 | 53.0                    |
| ULTRA-C-250-5* | 0.25  | 6.35 | 0.63  | 15.88 | 0.19  | 4.76 | 62.6                    |
| ULTRA-C-250-6* | 0.25  | 6.35 | 0.75  | 19.05 | 0.25  | 6.35 | 69.9                    |

| Part Number     | ID   |       | OD   |       | Wall |      | Burst pressure<br>psi** |
|-----------------|------|-------|------|-------|------|------|-------------------------|
|                 | in.  | mm.   | in.  | mm.   | in.  | mm.  |                         |
| ULTRA-C-625-1*  | 0.63 | 15.88 | 0.69 | 17.46 | 0.03 | 0.79 | 6.7                     |
| ULTRA-C-625-2   | 0.63 | 15.88 | 0.75 | 19.05 | 0.06 | 1.59 | 13.6                    |
| ULTRA-C-625-3*  | 0.63 | 15.88 | 0.81 | 20.64 | 0.09 | 2.38 | 20.0                    |
| ULTRA-C-625-4   | 0.63 | 15.88 | 0.88 | 22.23 | 0.13 | 3.18 | 25.9                    |
| ULTRA-C-625-5   | 0.63 | 15.88 | 1.00 | 25.40 | 0.19 | 4.76 | 36.1                    |
| ULTRA-C-625-6*  | 0.63 | 15.88 | 1.13 | 28.58 | 0.25 | 6.35 | 44.3                    |
| ULTRA-C-312-1   | 0.31 | 7.94  | 0.38 | 9.53  | 0.03 | 0.79 | 13.6                    |
| ULTRA-C-312-2   | 0.31 | 7.94  | 0.44 | 11.11 | 0.06 | 1.59 | 26.1                    |
| ULTRA-C-312-3   | 0.31 | 7.94  | 0.50 | 12.70 | 0.09 | 2.38 | 36.0                    |
| ULTRA-C-312-4   | 0.31 | 7.94  | 0.56 | 14.29 | 0.13 | 3.18 | 44.3                    |
| ULTRA-C-312-5   | 0.31 | 7.94  | 0.69 | 17.46 | 0.19 | 4.76 | 56.3                    |
| ULTRA-C-312-6*  | 0.31 | 7.94  | 0.81 | 20.64 | 0.25 | 6.35 | 64.4                    |
| ULTRA-C-375-1*  | 0.38 | 9.53  | 0.44 | 11.11 | 0.03 | 0.79 | 11.4                    |
| ULTRA-C-375-2   | 0.38 | 9.53  | 0.50 | 12.70 | 0.06 | 1.59 | 24.3                    |
| ULTRA-C-375-3   | 0.38 | 9.53  | 0.56 | 14.29 | 0.09 | 2.38 | 31.1                    |
| ULTRA-C-375-4   | 0.38 | 9.53  | 0.63 | 15.88 | 0.13 | 3.18 | 42.1                    |
| ULTRA-C-375-5   | 0.38 | 9.53  | 0.75 | 19.05 | 0.19 | 4.76 | 50.9                    |
| ULTRA-C-375-6*  | 0.38 | 9.53  | 0.88 | 22.23 | 0.25 | 6.35 | 59.4                    |
| ULTRA-C-500-1*  | 0.50 | 12.70 | 0.56 | 14.29 | 0.03 | 0.79 | 8.5                     |
| ULTRA-C-500-2   | 0.50 | 12.70 | 0.63 | 15.88 | 0.06 | 1.59 | 16.9                    |
| ULTRA-C-500-3   | 0.50 | 12.70 | 0.69 | 17.46 | 0.09 | 2.38 | 24.5                    |
| ULTRA-C-500-4   | 0.50 | 12.70 | 0.75 | 19.05 | 0.13 | 3.18 | 31.3                    |
| ULTRA-C-500-5   | 0.50 | 12.70 | 0.88 | 22.23 | 0.19 | 4.76 | 42.4                    |
| ULTRA-C-500-6*  | 0.50 | 12.70 | 1.00 | 25.40 | 0.25 | 6.35 | 50.9                    |
| ULTRA-C-750-1*  | 0.75 | 19.05 | 0.81 | 20.64 | 0.03 | 0.79 | 5.6                     |
| ULTRA-C-750-2*  | 0.75 | 19.05 | 0.88 | 22.23 | 0.06 | 1.59 | 11.4                    |
| ULTRA-C-750-3*  | 0.75 | 19.05 | 0.94 | 23.81 | 0.09 | 2.38 | 16.9                    |
| ULTRA-C-750-4   | 0.75 | 19.05 | 1.00 | 25.40 | 0.13 | 3.18 | 22.1                    |
| ULTRA-C-750-5   | 0.75 | 19.05 | 1.13 | 28.58 | 0.19 | 4.76 | 29.6                    |
| ULTRA-C-750-6   | 0.75 | 19.05 | 1.25 | 31.75 | 0.25 | 6.35 | 39.0                    |
| ULTRA-C-875-1*  | 0.88 | 22.23 | 0.94 | 23.81 | 0.03 | 0.79 | 4.7                     |
| ULTRA-C-875-2   | 0.88 | 22.23 | 1.00 | 25.40 | 0.06 | 1.59 | 9.7                     |
| ULTRA-C-875-3*  | 0.88 | 22.23 | 1.06 | 26.99 | 0.09 | 2.38 | 14.6                    |
| ULTRA-C-875-4   | 0.88 | 22.23 | 1.13 | 28.58 | 0.13 | 3.18 | 19.2                    |
| ULTRA-C-875-5   | 0.88 | 22.23 | 1.25 | 31.75 | 0.19 | 4.76 | 27.5                    |
| ULTRA-C-875-6   | 0.88 | 22.23 | 1.38 | 34.93 | 0.25 | 6.35 | 34.8                    |
| ULTRA-C-1000-1* | 1.00 | 25.40 | 1.06 | 26.99 | 0.03 | 0.79 | 4.1                     |
| ULTRA-C-1000-2* | 1.00 | 25.40 | 1.13 | 28.58 | 0.06 | 1.59 | 8.5                     |
| ULTRA-C-1000-3* | 1.00 | 25.40 | 1.19 | 30.16 | 0.09 | 2.38 | 12.8                    |
| ULTRA-C-1000-4  | 1.00 | 25.40 | 1.25 | 31.75 | 0.13 | 3.18 | 16.9                    |
| ULTRA-C-1000-5  | 1.00 | 25.40 | 1.38 | 34.93 | 0.19 | 4.76 | 22.6                    |
| ULTRA-C-1000-6  | 1.00 | 25.40 | 1.50 | 38.10 | 0.25 | 6.35 | 31.3                    |

\* Please consult manufacturing location for availability

\*\* Burst pressure measurement is using ASTM D1599



## Typical Physical Properties

| Property                    | ASTM Method | Formulations Value or Rating |          |
|-----------------------------|-------------|------------------------------|----------|
|                             |             | Ultra-C                      | Ultra-65 |
| Durometer, Shore A          | D2240       | 50                           | 65       |
| Tensile Strength psi        | D412        | 1293                         | 1373     |
| Elongation, %               | D412        | 719                          | 608      |
| Tensile Modulus, @ 200% psi | D412        | 200                          | 302      |
| Specific Gravity            | D792        | 1.14                         | 1.17     |

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

## Sani-Tech® Ultra Options

- Custom laylines
- Sterile
- Bulk spool packaging
- Custom sizes available

## Sterilization Methods

- Autoclavable
- Gamma irradiation up to 5.0 Mrad (50 Kilogray)
- Gas - ethylene oxide

# ULTRA-X<sup>1</sup>-XXX-XX<sup>2</sup>

### Silicone Grade

ULTRA = Sani-Tech® ULTRA®

### Hardness

C = 50 Shore  
65 = 65 Shore

### Inner Diameter (ID)

ID in inches  
e.g. 012

### Wall Size

|   |       |         |
|---|-------|---------|
| 1 | 1/32" | 0.79 mm |
| 2 | 1/16" | 1.59 mm |
| 3 | 3/32" | 2.38 mm |
| 4 | 1/8"  | 3.17 mm |
| 5 | 3/16" | 4.76 mm |
| 6 | 1/4"  | 6.35 mm |

### Coil

F = 50ft coil  
H = 100ft coil  
25ft coil has  
**no designation**

An example of PN is : ULTRA-C-030-2

<sup>1</sup>Add M for metric sizes (example : CM or 65M)

<sup>2</sup>For custom sizes or custom products switch the letter

Sani-Tech® is a registered trademark



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**WARRANTY:** For a period of 12 months from the date of first sale, Saint-Gobain Life Sciences warrants this product to be free of 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.

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