

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:

USP Class VI

ISO 10993

European Pharmacopoeia 3.1.9

For additional compliance data visit 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 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 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 can be measured or calculated

Sani-Tech® Ultra-65 Tubing Standard Sizes

Part Number	ID		OD		Wall		Burst pressure psi**
	in.	mm.	in.	mm.	in.	mm.	
ULTRA-65-012-0*	0.01	0.30	0.02	0.61	0.01	0.15	110.9
ULTRA-65-020-0*	0.02	0.51	0.04	0.91	0.01	0.20	93.4
ULTRA-65-025-0*	0.03	0.64	0.05	1.19	0.01	0.28	100.8
ULTRA-65-030-0	0.03	0.76	0.07	1.68	0.02	0.46	125.4
ULTRA-65-030-2*	0.03	0.76	0.16	4.06	0.06	1.57	199.3
ULTRA-65-040-0*	0.04	1.02	0.09	2.18	0.02	0.58	122.0
ULTRA-65-058-0*	0.06	1.47	0.08	1.93	0.01	0.23	36.7
ULTRA-65-062-1	0.06	1.59	0.13	3.18	0.03	0.79	112.1
ULTRA-65-062-2	0.06	1.59	0.19	4.76	0.06	1.59	164.3
ULTRA-65-062-3	0.06	1.59	0.25	6.35	0.09	2.38	186.2
ULTRA-65-062-4	0.06	1.59	0.31	7.94	0.13	3.18	197.9
ULTRA-65-062-5*	0.06	1.59	0.44	11.11	0.19	4.76	208.6
ULTRA-65-062-6*	0.06	1.59	0.56	14.29	0.25	6.35	213.2
ULTRA-65-078-1*	0.08	1.98	0.14	3.57	0.03	0.79	93.4
ULTRA-65-078-2*	0.08	1.98	0.20	5.16	0.06	1.59	147.6
ULTRA-65-078-3*	0.08	1.98	0.27	6.75	0.09	2.38	174.5
ULTRA-65-078-4*	0.08	1.98	0.33	8.33	0.13	3.18	189.2
ULTRA-65-078-5*	0.08	1.98	0.45	11.51	0.19	4.76	203.4
ULTRA-65-078-6*	0.08	1.98	0.58	14.68	0.25	6.35	209.8
ULTRA-65-093-1*	0.09	2.38	0.16	3.97	0.03	0.79	80.0
ULTRA-65-093-2*	0.09	2.38	0.22	5.56	0.06	1.59	133.7
ULTRA-65-093-3*	0.09	2.38	0.28	7.14	0.09	2.38	163.2
ULTRA-65-093-4*	0.09	2.38	0.34	8.73	0.13	3.18	180.4
ULTRA-65-093-5*	0.09	2.38	0.47	11.91	0.19	4.76	197.9
ULTRA-65-093-6*	0.09	2.38	0.59	15.08	0.25	6.35	206.1
ULTRA-65-125-1	0.13	3.18	0.19	4.76	0.03	0.79	61.4
ULTRA-65-125-2	0.13	3.18	0.25	6.35	0.06	1.59	114.7
ULTRA-65-125-3	0.13	3.18	0.31	7.94	0.09	2.38	143.0
ULTRA-65-125-4	0.13	3.18	0.38	9.53	0.13	3.18	163.2
ULTRA-65-125-5	0.13	3.18	0.50	12.70	0.19	4.76	186.2
ULTRA-65-125-6	0.13	3.18	0.63	15.88	0.25	6.35	197.9
ULTRA-65-156-1	0.16	3.97	0.22	5.56	0.03	0.79	48.5
ULTRA-65-156-2	0.16	3.97	0.28	7.14	0.06	1.59	93.4
ULTRA-65-156-3	0.16	3.97	0.34	8.73	0.09	2.38	125.4
ULTRA-65-156-4	0.16	3.97	0.41	10.32	0.13	3.18	147.6
ULTRA-65-156-5*	0.16	3.97	0.53	13.49	0.19	4.76	174.5
ULTRA-65-156-6	0.16	3.97	0.66	16.67	0.25	6.35	189.2
ULTRA-65-187-1	0.19	4.76	0.25	6.35	0.03	0.79	40.2
ULTRA-65-187-2	0.19	4.76	0.31	7.94	0.06	1.59	80.7
ULTRA-65-187-3	0.19	4.76	0.38	9.53	0.09	2.38	111.3
ULTRA-65-187-4	0.19	4.76	0.44	11.11	0.13	3.18	134.2
ULTRA-65-187-5	0.19	4.76	0.56	14.29	0.19	4.76	163.2
ULTRA-65-187-6	0.19	4.76	0.69	17.46	0.25	6.35	180.4
ULTRA-65-250-1	0.25	6.35	0.31	7.94	0.03	0.79	29.7
ULTRA-65-250-2	0.25	6.35	0.38	9.53	0.06	1.59	61.0
ULTRA-65-250-3	0.25	6.35	0.44	11.11	0.09	2.38	88.4
ULTRA-65-250-4	0.25	6.35	0.50	12.70	0.13	3.18	110.9
ULTRA-65-250-5*	0.25	6.35	0.63	15.88	0.19	4.76	142.8
ULTRA-65-250-6*	0.25	6.35	0.75	19.05	0.25	6.35	163.2

* Please consult manufacturing location for availability

** Burst pressure can be measured or calculated

Part Number	ID		OD		Wall		Burst pressure psi**
	in.	mm.	in.	mm.	in.	mm.	
ULTRA-65-625-1*	0.63	15.88	0.69	17.46	0.03	0.79	9.3
ULTRA-65-625-2	0.63	15.88	0.75	19.05	0.06	1.59	22.0
ULTRA-65-625-3*	0.63	15.88	0.81	20.64	0.09	2.38	35.4
ULTRA-65-625-4	0.63	15.88	0.88	22.23	0.13	3.18	48.5
ULTRA-65-625-5	0.63	15.88	1.00	25.40	0.19	4.76	71.2
ULTRA-65-625-6*	0.63	15.88	1.13	28.58	0.25	6.35	93.4
ULTRA-65-312-1	0.31	7.94	0.38	9.53	0.03	0.79	22.0
ULTRA-65-312-2	0.31	7.94	0.44	11.11	0.06	1.59	49.0
ULTRA-65-312-3	0.31	7.94	0.50	12.70	0.09	2.38	72.9
ULTRA-65-312-4	0.31	7.94	0.56	14.29	0.13	3.18	93.4
ULTRA-65-312-5	0.31	7.94	0.69	17.46	0.19	4.76	125.4
ULTRA-65-312-6*	0.31	7.94	0.81	20.64	0.25	6.35	147.6
ULTRA-65-375-1*	0.38	9.53	0.44	11.11	0.03	0.79	17.6
ULTRA-65-375-2	0.38	9.53	0.50	12.70	0.06	1.59	39.8
ULTRA-65-375-3	0.38	9.53	0.56	14.29	0.09	2.38	61.1
ULTRA-65-375-4	0.38	9.53	0.63	15.88	0.13	3.18	74.3
ULTRA-65-375-5	0.38	9.53	0.75	19.05	0.19	4.76	110.9
ULTRA-65-375-6*	0.38	9.53	0.88	22.23	0.25	6.35	133.7
ULTRA-65-500-1*	0.50	12.70	0.56	14.29	0.03	0.79	12.3
ULTRA-65-500-2	0.50	12.70	0.63	15.88	0.06	1.59	28.7
ULTRA-65-500-3	0.50	12.70	0.69	17.46	0.09	2.38	45.2
ULTRA-65-500-4	0.50	12.70	0.75	19.05	0.13	3.18	63.3
ULTRA-65-500-5	0.50	12.70	0.88	22.23	0.19	4.76	88.6
ULTRA-65-500-6*	0.50	12.70	1.00	25.40	0.25	6.35	110.9
ULTRA-65-750-1*	0.75	19.05	0.81	20.64	0.03	0.79	7.4
ULTRA-65-750-2*	0.75	19.05	0.88	22.23	0.06	1.59	17.6
ULTRA-65-750-3*	0.75	19.05	0.94	23.81	0.09	2.38	28.7
ULTRA-65-750-4	0.75	19.05	1.00	25.40	0.13	3.18	39.7
ULTRA-65-750-5	0.75	19.05	1.13	28.58	0.19	4.76	58.5
ULTRA-65-750-6	0.75	19.05	1.25	31.75	0.25	6.35	80.0
ULTRA-65-875-1*	0.88	22.23	0.94	23.81	0.03	0.79	6.0
ULTRA-65-875-2	0.88	22.23	1.00	25.40	0.06	1.59	14.6
ULTRA-65-875-3*	0.88	22.23	1.06	26.99	0.09	2.38	23.9
ULTRA-65-875-4	0.88	22.23	1.13	28.58	0.13	3.18	33.4
ULTRA-65-875-5	0.88	22.23	1.25	31.75	0.19	4.76	52.1
ULTRA-65-875-6	0.88	22.23	1.38	34.93	0.25	6.35	69.4
ULTRA-65-1000-1*	1.00	25.40	1.06	26.99	0.03	0.79	5.1
ULTRA-65-1000-2*	1.00	25.40	1.13	28.58	0.06	1.59	12.3
ULTRA-65-1000-3*	1.00	25.40	1.19	30.16	0.09	2.38	20.4
ULTRA-65-1000-4	1.00	25.40	1.25	31.75	0.13	3.18	28.7
ULTRA-65-1000-5	1.00	25.40	1.38	34.93	0.19	4.76	61.3
ULTRA-65-1000-6	1.00	25.40	1.50	38.10	0.25	6.35	58.0

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-X¹-XXX-XX²

Silicone Grade	Hardness	Inner Diameter (ID)	Wall Size	Coil																		
ULTRA = Sani-Tech® ULTRA®	C = 50 Shore 65 = 65 Shore	ID in inches e.g. 012	<table><tr><td>1</td><td>1/32"</td><td>0.79 mm</td></tr><tr><td>2</td><td>1/16"</td><td>1.59 mm</td></tr><tr><td>3</td><td>3/32"</td><td>2.38 mm</td></tr><tr><td>4</td><td>1/8"</td><td>3.17 mm</td></tr><tr><td>5</td><td>3/16"</td><td>4.76 mm</td></tr><tr><td>6</td><td>1/4"</td><td>6.35 mm</td></tr></table>	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	F = 50ft coil H = 100ft coil 25ft coil has no designation
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																				
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An example of PN is : ULTRA-C-030-2

¹Add M for metric sizes (example : CM or 65M)

²For custom sizes or custom products switch the letter

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Saint-Gobain Life Sciences

700 Warner Blvd
Taunton, MA 02780, USA
Tel: (508) 823-7701

BP 14 - La Mothe Aux Aulnaies
89120 Charny-Oree-de-Puisaye, France
Tel: +33 3 86 63 78 78

Devanahalli Road, 161-A, Off old Madras
Road, Bengaluru - 560049, India
Tel: + 91 80 4246 8989

www.biopharm.saint-gobain.com

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