

Sani-Tech™ Silicone Stoppers



Sani-Tech® Silicone Stoppers

Sani-Tech® ultra-pure, platinum-cured silicone stoppers outperform standard neoprene and rubber stoppers in critical process and laboratory applications in terms of life-expectancy, consistency, and purity. Sani-Tech® silicone stoppers are fully autoclavable and sterilizable and will not crack, cause spallation, or release particulates that could cause process contamination or lost product.

Sani-Tech® silicone stoppers can be supplied with cored holes for use with specially designed dip tubes or vent configurations. Custom identification markings can also be utilized to help differentiate supply lines.

Characteristics

The manufacturing process is carefully controlled from receiving through production and inspection and lot traceability is readily accessible in all stages through batch number assignments.

Saint-Gobain Performance Plastics ISO 9001 manufacturing facilities have the ability to create a wide variety of customized silicone stoppers including color coding and coring options to fit the demanding applications of the pharmaceutical, biotechnology, and laboratory environments.

Biocompatibility

Sani-Tech® ultra-pure silicone stoppers are manufactured from a biopharmaceutical-grade of silicone materials and are fully characterized from a biological, chemical, and physical standpoint. Sani-Tech® stoppers are tested to specifications including USP Class VI and FDA 177.2600 criteria. Sani-Tech® ultra-pure silicone stoppers have a masterfile with the U.S Food and Drug Administration.

BIOPHARMACEUTICAL PRODUCTS

Ultra-Pure Platinum-Cured Silicone Stoppers

Features/Benefits

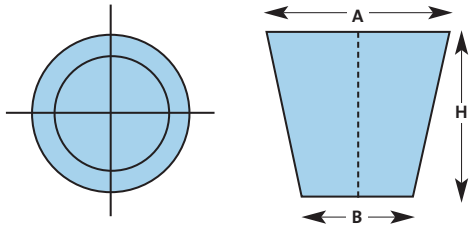
- Ultra-pure Biopharmaceutical-Grade Silicone
- Unsurpassed Surface Smoothness
- Resists Cracking and Spallation
- No Particle Migration
- Fully Autoclavable and Sterilizable
- Imparts No Taste or Odors
- Biologically safe
- Custom Identification and Color Options

Typical Applications

- Carboys and Vessels
- Solution and Media Bottles
- Process and Storage Procedures
- Laboratory Apparatus



Sani-Tech® Silicone Stoppers Selection Guide



Part Number	Size	A Inches (mm)	B Inches (mm)	H Inches (mm)	Volume Inches ³ (cm ³)	Weight LB (G)
4120-1000	000	0.528 (13.4)	0.350 (8.9)	0.830 (21.1)	0.127 (2.08)	0.005 (2.27)
4120-1100	00	0.593 (15.1)	0.421 (10.7)	0.980 (24.9)	0.195 (3.20)	0.008 (3.63)
4120-1110	0	0.665 (16.9)	0.518 (13.2)	0.981 (24.9)	0.272 (4.46)	0.012 (5.44)
4120-0001	1	0.776 (19.7)	0.587 (14.9)	0.970 (24.6)	0.342 (5.60)	0.015 (6.8)
4120-0002	2	0.773 (19.6)	0.637 (16.2)	0.989 (25.1)	0.393 (6.44)	0.017 (7.71)
4120-0003	3	0.950 (24.1)	0.725 (18.4)	0.982 (24.9)	0.544 (8.91)	0.023 (10.43)
4120-0004	4	1.029 (26.1)	0.779 (19.8)	0.975 (24.7)	0.628 (10.29)	0.026 (11.79)
4120-0005	5	1.051 (26.7)	0.890 (22.6)	0.968 (24.6)	0.744 (12.19)	0.031 (14.06)
4120-0006	6	1.256 (31.9)	1.041 (26.4)	0.915 (23.2)	0.947 (15.52)	0.040 (18.14)
4120-0007	7	1.440 (36.6)	1.115 (28.3)	0.957 (24.3)	1.233 (20.2)	0.054 (24.49)
4120-0008	8	1.611 (41.0)	1.305 (33.2)	0.991 (25.2)	1.664 (27.3)	0.073 (33.11)
4120-0009	9	1.775 (45.1)	1.474 (37.4)	0.987 (25.1)	2.052 (33.63)	0.086 (39.01)
4120-0010	10	1.973 (50.1)	1.669 (42.4)	0.935 (23.7)	2.425 (39.74)	0.102 (26.27)
4120-0011	11	2.187 (55.5)	1.913 (48.6)	0.941 (23.9)	3.137 (51.41)	0.032 (59.88)
4120-0012	12	2.508 (63.7)	2.134 (54.2)	0.965 (24.5)	4.253 (69.69)	0.188 (85.28)
4120-0013	13	2.667 (67.7)	2.284 (58.0)	1.011 (25.7)	4.813 (78.87)	0.207 (93.90)
4120-0014	14	3.489 (88.6)	2.953 (75.0)	1.494 (37.9)	12.504 (204.90)	0.538 (244.04)
4120-0015	15	4.053 (102.9)	3.260 (82.8)	1.505 (38.2)	15.866 (260.00)	0.682 (309.36)
4120-0016	16	4.950 (125.7)	3.543 (90.0)	2.016 (51.2)	29.106 (476.96)	1.252 (567.91)

¹ All stoppers can be supplied with cored holes for use with dip tubes, vents, etc.
² Consult factory for available sizes. Certain half and non-standard sizes are available upon request.

Sterilization Methods

- Autoclavable
- Radiation - up to 2.5 Mrad (25 Kilogray)
- Gas - Ethylene Oxide

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 Sec	D2240	45
Tensile Strength, psi (MPa)	D412	1,250
Ultimate Elongation, 100%	D412	650
Tear Resistance, lb-f/inch (kN/m)	D624	230
Specific Gravity	D792	1.12
Tensile Modulus	D412	175

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® is a registered trademark.

BIOPHARMACEUTICAL PRODUCTS

Come through clean.SM

Saint-Gobain Performance Plastics

3910 Terry-Diane Street
 Beaverton, MI 48612
 Tel: (888) 387-0067
 Tel: (989) 435-9533
 Fax: (989) 435-2355



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.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.