

Sani-Tech® Silicone Stoppers

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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.

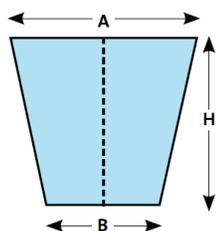
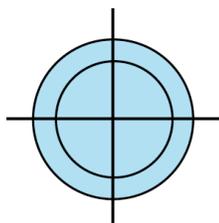
Features / Benefits

- 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* (cm*) | 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) |
| 4120-1001 | 1 | 0.776 (19.7) | 0.587 (14.9) | 0.970 (24.6) | 0.342 (5.60) | 0.015 (6.8) |
| 4120-1002 | 2 | 0.773 (19.6) | 0.637 (16.2) | 0.989 (25.1) | 0.393 (6.44) | 0.017 (7.71) |
| 4120-1003 | 3 | 0.950 (24.1) | 0.725 (18.4) | 0.982 (24.9) | 0.544 (8.91) | 0.023 (10.43) |
| 4120-1004 | 4 | 1.029 (26.1) | 0.779 (19.8) | 0.975 (24.7) | 0.628 (10.29) | 0.026 (11.79) |
| 4120-1005 | 5 | 1.051 (26.7) | 0.890 (22.6) | 0.968 (24.6) | 0.744 (12.19) | 0.031 (14.06) |
| 4120-1006 | 6 | 1.256 (31.9) | 1.041 (26.4) | 0.915 (23.2) | 0.947 (15.52) | 0.040 (18.14) |
| 4120-1007 | 7 | 1.440 (36.6) | 1.115 (28.3) | 0.957 (24.3) | 1.233 (20.2) | 0.054 (24.49) |
| 4120-1008 | 8 | 1.611 (41.0) | 1.305 (33.2) | 0.991 (25.2) | 1.664 (27.3) | 0.073 (33.11) |
| 4120-1009 | 9 | 1.775 (45.1) | 1.474 (37.4) | 0.987 (25.1) | 2.052 (33.63) | 0.086 (39.01) |
| 4120-1010 | 10 | 1.973 (50.1) | 1.669 (42.4) | 0.935 (23.7) | 2.425 (39.74) | 0.102 (26.27) |
| 4120-1011 | 11 | 2.187 (55.5) | 1.913 (48.6) | 0.941 (23.9) | 3.137 (51.41) | 0.032 (59.88) |
| 4120-1012 | 12 | 2.508 (63.7) | 2.134 (54.2) | 0.965 (24.5) | 4.253 (69.69) | 0.188 (85.28) |
| 4120-1013 | 13 | 2.667 (67.7) | 2.284 (58.0) | 1.011 (25.7) | 4.813 (78.87) | 0.207 (93.90) |
| 4120-1014 | 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) |

¹All stoppers can be supplied with cored holes for use with dip tubes, vents, etc.

²Consult 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) 1,250 | D412 | |
| Ultimate Elongation, 100% | D412 | 650 |
| Tear Resistance, lb-f/inch (kN/m) | D624 | 230 |
| Specific Gravity | D792 | 1.12 |
| Tensile Modulus | D412 | 175 |

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IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain Performance Plastics assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics 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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