



Food Contact Status and FDA Regulations:FDA 21CFR177.2600

Date:	
User's Name :	
Tested for:	
Item Name:	

This is to certify that the Tube, supplied are manufactured with silicone elastomer which is formulated to meet applicable food contact regulations and recommendations & are in compliance with **FDA 21 CFR 177.2600**.

This includes compliance with subsections 177.2600 (d – h). The limitations described in these subsections are as follows.

(d) Rubber articles intended for use with dry food are so formulated and cured under conditions of good manufacturing practice as to be suitable for repeated use.

The Silicone basic polymer as described in ASTM D1418-81. "Standard Practice for Rubber and Rubber Latices--Nomenclature," which is incorporated by reference. Copies may be obtained from the American Society for Testing Materials, 1916 Race St., Philadelphia, PA 19103, or may be examined at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20408.

- **Silicone (Si) elastomers containing methyl groups.**
- **(Source-Dow Corning Data Sheet).**

Certified by
For, WESTERN RUBBERS INDIA PVT LTD

K.V.SUBHASH(QC.DEPT.)

Note :

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Silicone Rubber Oxidation Resistance Data

Date:		
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This is to certify that the Tubes, supplied are resistant to **oxidative damage**.

Oxidation

Oxidation, which quickly destroys organic elastomers, is virtually nonexistent with silicone rubber.

Ozone

Silicone rubber, when tested for resistance to ozone, shows excellent stability. After both static and dynamic testing for periods of two, four, six, and eight hours, samples had no significant change in durometer hardness, Tensile strength, or elongation. Under a magnification of 10, no cracking or checking was visible.

The tests followed procedures of **ASTM D518** and **ASTM D1149** with some modification to match the outstanding properties of Silastic silicone elastomers. As specified in **ASTM D518** specimens were stretched 20 percent. However, in addition to this static condition a dynamic test elongated specimens 25 percent in a cycle of 30 stretches per minute. This cycling, if the rubber were affected by ozone, would result in the rapid propagation of any cracking. As started, no cracking or checking occurred.

Other test modification concern test method **ASTM D1149**. Under this procedure, a concentration of 50 parts of ozone per 100 million parts of air is specified. And, for silicone rubber, this was increased to a concentration of 30,000 parts of ozone. The procedure also states that a temperature of 40° or 50° C may be used. Silicone rubber tested successfully at 74° C.

(Source-Dow Corning Data Sheet).
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Silicone Rubber Tear Strength Data

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This is to certify that the Tubes, supplied are resistant to **twisting stress**.

Tear Strength

Resistance to growth of a cut or nick when tension is applied to the cut specimen. High performance silicone rubber resists tear when nicked and placed under severe twisting stress.

Typical tear strength ranges are listed here; review the links to each selection guide for more details. High consistency silicone rubber has a typical tear strength range from 9 to 55 kN/m.

Flexometer tests prove the outstanding crack growth resistance of silicone rubber. When subjected to flexometer test punishment – 18,000 cycles an hour until failure – cut – growth samples of a high performance silicone elastomer last up to 500,000 cycles.

(Source-Dow Corning Data Sheet).

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Silicone Rubber Steam Resistance Data

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This is to certify that the Sieves, supplied are resistant to **Steam**. In general, Silicone rubber not under pressure is little affected by moisture in the form of free steam. This is also true when the steam is at low or moderate pressure. However with increased steam pressure, effects upon the mechanical properties of the rubber become greater. As a rule, silicone rubber is not recommended for long term service where steam pressure exceeds 50 psi.

Properties of general purpose Silastic silicone rubber after contact with steam.

Contact Conditions	Sweel, Percent	Durometer Hardness Shore A-2, points change
14 days/5 psi (720 MPa)	+3	-5
14 days/10 psi (720 MPa)	Nil	-5
14 days/20 psi (720 MPa)	+4	-8

3 days/50 psi (720 MPa)	+2	-4
7 days/50 psi (720 MPa)	+9	-17
1 days/100 psi (720 MPa)	+3	-8
7 days/100 psi (720 MPa)	+13	-35

(Source – Dow Corning Data Sheet.)

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Silicone Rubber Chemical Resistance Data

Date:		
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This is to certify that the Sieves, supplied are resistant to **Chemical, Solvents and Fuels** as follows :

Reagent	Silastic Silicone rubber volume Change, percent
Acid Solution (tested 7 days at room temperature)	
10% hydrochloric acid	0 to 2
Concentrated hydrochloric acid	0 to 15
10% nitric acid	1 to 10
Concentrated nitric acid	-10 to -5
10% sulfuric acid	1 to 5
Concentrated sulfuric acid	decomposed
Concentrated acetic acid	5 to 18
Alkali Solutions (tested 7 days at room temperature)	
10% ammonium hydroxide	Nil
Concentrated ammonium hydroxide	0 to 7
10% sodium hydroxide	0 to 3
50% sodium hydroxide	0 to 9

Solvents & Fuels (tested 7 days at room temperature)	
Acetone	15 to 25
Carbon tetrachloride	over 150
Ethylalcohol	0 to 20
Iso-octane	over 150
Xylene	over 150
Reference fuel B	over 150
Jet fuel Jp-4	over 150

For additional information on the effects of many other chemical and solvents on Silastic Silicone rubber, write for the brochure, (Source-Dow Corning Data Sheet).

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Silicone Rubber Fungus Resistance Data

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This is to certify that the Sieves, supplied are resistant to **Fungal Growth**.

When rubber is used in any warm, damp environment, its properties must resist attack by mold or fungus. Although silicone rubber is not antifungicidal, it is not a nutrient for fungi nor is it adversely affected by fungus or mold.

With test procedures described in 005272B (USAF), several classes of Military Specification MIL-E, Silastic Silicone rubber was exposed to chaetominum, globum, aspergillus niger, aspergillus terreus, penicillium lutem, and fusarium moniliforme. None of these micro-organisms deteriorated the specimens.

In another test, silicone rubber samples were buried in 5 inches of warm (28°C) moist soil for 6 weeks with evidence of microbial attack.

In a third test, samples were sprayed with a mixed spore suspension of fungi and then placed in a tropical test chamber at 27°C, 90/100 percent relative humidity, None were attacked by mildew.

(Source-Dow Corning Data Sheet).

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USP-28 Toxicology Test Report

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Item name:		

This is to certify that the Sieves, supplied are moulded with non-toxic pure silicone elastomer. To compliment our existing Test validation reports our silicone moulded sieve has been successfully tested and validated in accordance with:

USP 28,NF 23, 2005 for Class VI Plastics Biological Reactivity Test, In Vivo<88>

.Systemic Injection Test :The sample submitted passes the test.

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