



# SAM ENGINEERS

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## General Characteristics

**Viton Sponge** is a closed cell formulation that is manufactured with a continuous skin on both sides. The skin makes the sponge stronger and more tear resistant. Even when the skin is punctured or cut, the sheets will not allow passage of air or fluid between cells. The non-absorbent sheets are highly compressible, resilient, light weight and provide good thermal insulation.

Like dense Viton sheet, **Viton Sponge** is generally resistant to aliphatic and aromatic hydrocarbons, oils, fuels, ozone and weather, lubricants and animal or vegetable oils. It is also resistant to acids and hot water.

**Viton Sponge** sheets have a service temperature range of -10°F to 400°F. However, elevated temperature while under compression will have an adverse effect on the resilience of this material.

## Typical Physical Properties

Thickness	1/8"	1/4"	3/8"	1/2"
Water Pick-Up (% Weight Increase)	0.00%	0.02%	0.06%	0.01%
Compression Set (%) (22 hours at 75° F) (22 hours at 158° F)	27% 100%	13% 100%	14% 100%	17% 100%
Low Temperature Brittleness (° F)	-10°F	-10°F	-10°F	-10°F
Compression Deflection (psi) (25% Deflection—original) (25% Deflection—7 days at 400° F)	6.5 9.0	5.5 7.5	4.0 6.0	3.5 5.0
Density—Lbs per cubic foot	19	17	15	10
Thickness Tolerance	+0.050 -0.030	+0.060 -0.060	+0.080 -0.080	+0.125 -0.125

Regd. Off: A-603, Blue Regency, Off Link Road, Mahavir Nagar, Kandivali (W), Mumbai 400 067, Maharashtra, India.

Unit No.2, Jas Industrial Estate, B. P. Road, Opp. Kapol Bank, Goddev Naka, Bhayandar (E), Thane 401-105, Maharashtra, India.



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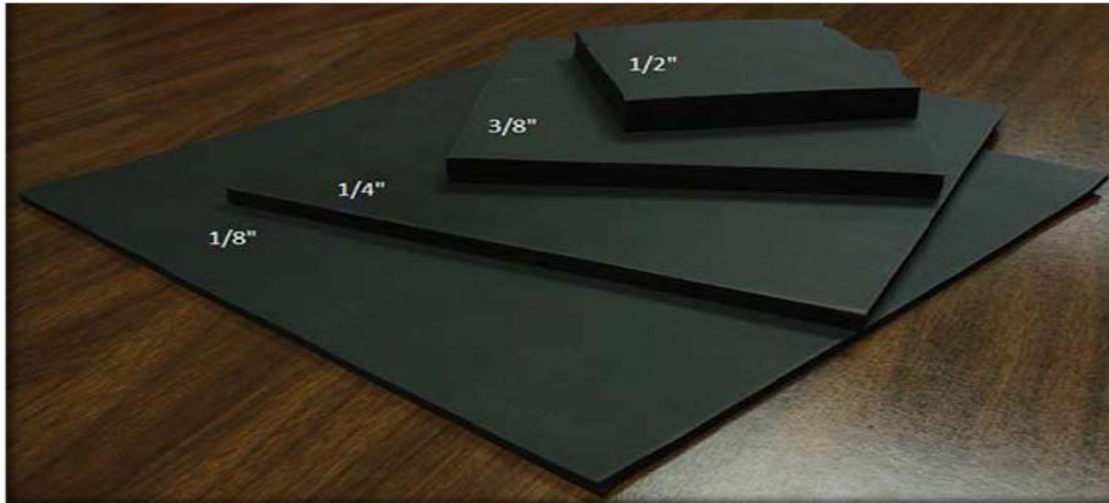
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**Seal & Design offers these thicknesses (call for sheet sizes).**

**.125" .250" .375" .500"**



## **VITON® SPONGE (Closed Cell)**

### **Fluid Resistance**

Viton® Sponge resists the corrosive attack of a wide variety of chemicals and fluids. It delivers superior protection against oils, fuels, lubricants, most mineral acids, and fire-resistant hydraulic fluids.

It performs well in many aliphatic and aromatic hydrocarbons (carbon tetrachloride, benzene, toluene, xylene) that act as degrading solvents for other rubbers. The operational temperature range of Viton® Sponge is -10°F to +400°F. At high temperatures, Viton® Sponge resists heat and simultaneously retains its good mechanical properties.

Viton® Sponge plays a particularly vital role in cases where soft fluoroelastomers are desirable. The practical low hardness limit for solid Viton® is 55 durometer. Viton® Sponge fills this void where softer material is required, yet the heat and fluid resistance of solid Viton® is necessary.

Additional advantages of Viton® Sponge over conventional elastomeric sponges include: low temperature flexibility, high resistance to ozone attack, and low moisture absorption.

[www.sealanddesign.com](http://www.sealanddesign.com)

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