

AUBURN PRODUCT NEWS

Auburn Manufacturing Co.

29 Stack St., Middletown, CT 06457

Phone (860-346-6677 FAX (860) 346-1334

www.auburn-mfg.com

email: info@auburn-mfg.com

VITON® SPONGE (Closed Cell)

Fluid Resistance

Viton® Sponge TM (DuPont) 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.

Temperature

The operational temperature range of Viton® Sponge is -40°F to +450°F with intermittent service up to 600°F. At high temperatures, Viton® Sponge resists heat and simultaneously retains its good mechanical properties.

Sponge vs. Solid

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.

Other Properties

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

AVAILABILITY

Cut parts, gaskets and seals of Viton® Sponge are available from Auburn, as well as standard sheets 24" x 24" and 24" x 48" in 1/8", 1/4" and 3/8" thicknesses. Special adhesive is available for cementing Viton® Sponge to itself or bonding it to other materials.

TYPICAL PHYSICAL CHARACTERISTICS

| Thicknesses: | (1/8") | (1/4") | (3/8") |
|--|--------|--------|--------|
| Density – lb./cu. ft. | 19 | 17 | 15 |
| Water Resistance - % Weight Change | 0.00 | 0.02 | 0.06 |
| Low Temperature Brittle Point – Fahrenheit | -40 | -30 | -30 |
| Upper Continuous Temperature – Fahrenheit | 450 | 450 | 450 |
| Compression Set - % 22 hrs. at + 75°F | 27 | 13 | 14 |
| Compression Deflection – lbs. | 6.5 | 5.5 | 4.0 |
| Compression Deflection -- lbs. after 7 days at + 400°F | 9.0 | 7.5 | 6.0 |

All properties are typical values and should not be used for writing specifications.

Its unique combination of characteristics enables Viton® Sponge to deliver maximum service in a diverse range of applications. If you can capitalize on these features, specify Auburn Viton® Sponge. For additional technical support, price quotations, samples or further recommendations, please contact your Auburn Customer Service Representative.