

4.2.1.2 Specific Volume

Unless otherwise specified, the specific volume for each nominal thickness shall be as specified below; a tolerance of $\pm 10\%$ will be allowed.

Nominal Thickness Inches	Specific Volume cu in. per lb
1/16	31
3/32	33
1/8	35
3/16	37
1/4	38
5/16	40
3/8	41
1/2	43
5/8	45
3/4	47
7/8	49
1	51
1-1/2	54

4.2.1.3 Hydrogen Ion Concentration, pH

7.0 ± 1.0

See Note 1

4.2.2 Dry Heat Resistance:

See Note 2

4.2.2.1 Compression-Deflection Change, %

-5 to +30

Temperature: $100\text{ C} \pm 1$

($212\text{ F} \pm 1.8$)

Time: 22 hr

4.2.2.2 Specific Volume Change, %

-10 to +10

4.2.2.3 Bend (flat)

No cracking
or checking

Ø 4.2.3 Compression Set:

ASTM D1056

Ø 4.2.3.1 Percent of original deflection, max

60

Temperature: $70\text{ C} \pm 1$

($158\text{ F} \pm 1.8$)

Time: 22 hr

4.2.3.2 Percent of original thickness, max

30

Note 1. Dice approximately 1 cu in. of sponge to approximately 1/8 in. or smaller cubes and extract with continuous agitation for 1 hr with 100 ml of freshly distilled water. Determine pH of the extract.

Note 2. A sample of material 4 in. square shall be suspended in the oven by a wire attached to one corner of the sample. After heating, the sample shall be removed from the oven and trimmed to 2 in. square by removing 1 in. from each edge prior to testing. Standard compression-deflection specimens shall be cut from the sample and tested.

5. QUALITY: The product shall be uniform in quality and condition, clean, smooth, and free from foreign materials and from imperfections detrimental to fabrication, appearance, or performance of parts.

6. TOLERANCES: Unless otherwise specified, the following tolerances apply; measurements shall be made in accordance with the issue of ASTM D1056 listed in the latest issue of AMS 2350.