



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	34
3/32	40
1/8	42
3/16	45
1/4	47
5/16	49
3/8	51
1/2	55
5/8	59
3/4	63
7/8	66
1	70
1-1/2	76

4.2.1.3 Hydrogen Ion Concentration, pH

7.0  $\pm$  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 C  $\pm$  1  
(212 F  $\pm$  1.8)

4.2.2.2 Specific Volume Change, %

-10 to +10

Time: 22 hr

4.2.2.3 Bend (flat)

No cracking  
or checking

Ø 4.2.3 Compression Set:

ASTM D1056

Ø 4.2.3.1 Per cent of original deflection, max

50

Temperature: 70 C  $\pm$  1  
(158 F  $\pm$  1.8)

4.2.3.2 Per cent of original thickness, max

25

Time: 22 hr

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.