

GDT 88

A. Scope

For a complete list of GDTs, see the Table of Contents.

This method of test covers the procedures for determining the percent open area of woven filter fabrics.

B. Apparatus

1. Photographic Slide.
2. Slide Holders—Two 2 in x 2 in (50 mm x 50 mm) slide holders.
3. Rigid Screen—Rigid screen for projection.
4. Calipers—Calipers capable of measuring to the nearest 0.001 in (0.025 mm).

C. Procedures

1. Place 5 samples of unaged cloth separately in a 2 in x 2 in (50 mm x 50 mm) holder.
2. Project the image with a slide projector on to a rigid screen.
3. Select a square block of 25 openings near the center of that image. Measure the length and width of each of the 25 openings to the nearest 0.001 in (0.025 mm).
4. Determine the total area after measuring the lengths of the sides to the nearest 0.001 in (0.025 mm) of the same 25 opening blocks with the total width of 2 adjacent but not opposite boundary fibers included.

D. Sample Size and Preparation

No sample preparation is needed.

E. Calculations

Determine the percent open area by dividing the sum of the 25 open areas by the total area of the 25 openings and their adjacent fibers.

F. Report

Report the percent open area as the percent determined by averaging the percent open area determined from the five individual tests. If one or more of the five tests are outside the specified limits, test five additional samples.

From the total test results, make an assessment to determine if the overall uniformity of the plastic filter cloth will comply with requirements at the project.