



Mullen Testers

Bursting Strength Testers

Mullen Burst Testers: A Division of SDL Atlas

Setting Standards Since 1887

Since its invention in 1887, the Mullen Burst Tester has been the industry benchmark for measuring the burst strength of paper, paperboard, non-wovens and textiles. What started as an innovative contribution to the paper industry eventually served to define the “standard grades” in commerce. Many of the TAPPI and ASTM standards were created with the use of the Mullen Burst Tester specifically in mind. When it comes to quality control, our tester is an integral part of any well-equipped lab.



As of 2024, Mullen Testers has operated as a division of SDL Atlas with the manufacture and distribution of Mullen products located in the SDL Atlas facility in South Carolina, USA.

Unmatched Versatility

For pulp and paper products, the Mullen Burst Tester is relied upon to measure the material’s physical strength and fiber bond. And for textiles, our burst testing equipment measures the fabric’s strength along with the immediate or eventual effects of dyes, chemicals, and processes. It also demonstrates the results of wear, age, and environment, and evaluates the comparative strength of alternative fibers. Testing capabilities also include:

- Composite webs
- Foils
- Plastics
- A variety of other substrates



Select Test Methods for Mullen Testers

STANDARD	TEST TYPE
ASTM D774	Bursting Strength of Paper
ASTM D751	Standard Test Methods for Coated Fabrics
ASTM D3786	Bursting Strength of Textile Fabrics—Diaphragm Bursting Strength Tester Method
ASTM D3655	Bursting Strength of Men’s and Women’s Silver Knitted Overcoat and Jacket Fibers
INDA IST 80.6	Nonwovens Burst
ISO 2758	Paper - Determination of Bursting Strength
ISO 2759	Board - Determination of Bursting Strength
TAPPI T403 om 97	Bursting Strength of Paper
TAPPI T807 om 99	Bursting Strength of Paperboard and Linerboard
TAPPI T810 om 98	Bursting Strength of Corrugated and Solid Fiberboard

Mullen Models

Mullen Burst Testers are available in a variety of models-all specifically engineered for a wide range of test specimens and methods. The most common are below:

Model C



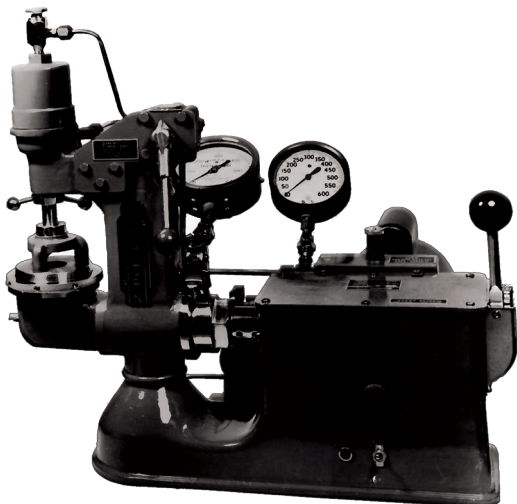
Mullen Burst Tester Model C is engineered to gauge pressure readings up to 200 PSI for testing paper, plastics, textiles, and non-wovens. The motorized drive ensures constant pressure and its hand lever clamp delivers quick, effortless testing.

Model A

Mullen Burst Tester Model A provides pressure readings up to 1500 PSI and is designed for testing corrugated, linerboard, and heavyweight textiles. Its powerful motorized drive ensures constant force to the select sample and its hand screw clamp allows virtually infinite clamping pressure for hard-to-hold materials.



Model AH



Mullen Burst Tester Model AH provides pressure readings up to 1500 PSI and is designed for testing corrugated, linerboard, and heavyweight textiles. The hydraulic-powered clamp is particularly adaptable to corrugated board, which must be clamped with moderation to prevent crushing the flutes. The hydraulic pressure may be easily adjusted to the exact pressure desired. Rapid testing is then possible with assured uniform clamping pressure.

Gauges are sold separately and up to 3 can be added to any Mullen Tester based on testing needs.

Mullen Accessories and Consumables

Every component, from precisely calibrated pressure gauges to the durable diaphragms and verification foils, reflects a deep commitment to consistency and performance. Whether calibrating, verifying, or optimizing, Mullen Testers accessories deliver reliable performance and exceptional versatility for any testing environment.

Gauge Options

All gauges are available with pressure measurements in PSI. Each is precisely calibrated and have an external pointer, adjustable with a thumb-screw on the gauge glass. The gauge is calibrated for maximum accuracy over the middle 60% of its scale and use at the extreme ends of the scale should be avoided. Applications involving a pressure range too wide for a single gauge requires the use of Mullen multiple gauge manifolds.



Fluid Injector

A Mullen Fluid Injector has a piston and shut-off valve to inject fluid and to maintain proper fluid level in the cylinder, thus serving as a fluid reservoir. The fluid injector makes it easy to change diaphragms and ensures testing accuracy.

Diaphragms

SDL Atlas carries 3 diaphragm options, #214 - Sheet Rubber Type for Papers, Films and Plastics, #520 - Molded Rubber Type for Textiles and #305-B - Molded Synthetic Rubber Type. Diaphragm performance is vital to consistent and reliable test results, which is why it should be checked and changed regularly.



Test Foils

Mullen Burst Tester Foils allow for the accurate evaluation of testing gauges. Each Package contains 10 Sheets and the entire package is required for performing a verification test. 17 different foils are available to range from 5-10 PSI up to 301-350 PSI.

Providing confidence in standard based testing through expertise and global partnering



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