



GenWashLab – Color Fastness to Washing Tester

Standards: [FTMS 191 Method 5610 / 5622](#), [ISO 105-E12](#),
[ISO 105-E03](#), [ISO 105-D01](#), [ISO 105-C10](#), [ISO 105-C09](#), [ISO 105-C08](#),
[ISO 105-C06](#), [ISO 105-C05](#), [ISO 105-C04](#), [ISO 105-C03](#),
[ISO 105-C02](#), [ISO 105-C01](#), [IWSTM 7, 115, 177, 193, 240, 241](#),
[BS 1006 NEXT 2, 3, 5](#), [M&S C4A, C5, C37, P3B](#), [JIS L 0879](#), [JIS L 0844](#),
[JIS L 0860](#), [AATCC 3, 61, 62, 86, 132, 151, 190](#), [GB/T 12490](#),
[GB/T 3921-1 to 5](#), [GB/T 5711](#)



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Description

[GenWashLab](#) is a temperature-controlled color fastness to washing tester designed to evaluate color change and staining performance of dyed textiles after laundering and dry-cleaning procedures. Built for standards-based laboratory testing, it combines controlled heating, timed wash cycles, stainless steel test vessels, and configurable cup arrangements in one system for repeatable day-to-day operation. It is well suited for textile mills, dye houses, quality laboratories, and development teams that need reliable wash fastness data for product approval, process control, and specification verification. Its positioning is also consistent with how established laundering fastness testers are presented in the market, where support for both ISO and AATCC workflows, vessel flexibility, and controlled bath conditions are central requirements.

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Main Features

GenWashLab is designed for labs that need repeatable wash fastness testing, broad standards coverage, and practical flexibility across different vessel configurations and workflows.

- **Washing and Dry-Cleaning Fastness Testing:** Designed to evaluate the change in color fastness of dyed textiles after washing and also supports dry-cleaning color fastness procedures.
- **Controlled Temperature and Time Settings:** Uses automatic temperature and time control to support consistent wash cycle conditions in routine laboratory testing.
- **Touchscreen Operation:** Provides a simple operator interface for setup and day-to-day test control.
- **Configurable Cup Arrangements:** Available in multiple cup composite modes to suit different test volumes and lab throughput requirements.
- **Stainless Steel Construction:** The cabinet and test cups are made from stainless steel for durability and resistance to heat, corrosion, and chemical exposure.
- **Door Safety Switch:** Built with a safety interlock feature to help protect operators during heated testing cycles.
- **Alarm Notification at Test Completion:** Provides an end-of-test alert to improve lab workflow and reduce the chance of missed cycles.
- **Broad Standards Alignment:** Designed around ISO, BS, AATCC, JIS, and SDC-based wash fastness requirements, which is consistent with how competing laundering fastness systems are positioned for textile testing labs.



Applications

GenWashLab is intended for textile laboratories that need controlled laundering and dry-cleaning tests to assess how dyed or finished materials perform after exposure to standardized wash conditions. It is especially useful where color change, staining, and finish durability must be evaluated before release, qualification, or comparison. James Heal's GyroWash, for example, is positioned similarly for color fastness to laundering testing of textiles and leather according to AATCC and ISO methods.

- **Dyed Textile Testing:** Evaluation of color stability after washing cycles.
- **Dry-Cleaning Fastness Assessment:** Suitable for procedures requiring dry-cleaning fastness evaluation.
- **Quality Control Programs:** Supports lot approval, production monitoring, and internal specification checks.
- **Product Development and Finishing Trials:** Useful when comparing dyes, detergents, auxiliaries, finishes, and fabric constructions.
- **Standards-Based Laboratory Work:** Supports washing fastness workflows used in textile compliance, sourcing, and validation programs.

Who This System Is For

GenWashLab is well suited for organizations that need dependable washing fastness data as part of a structured textile testing workflow.

- Textile manufacturers
- Dye houses and finishing operations
- Quality control and quality assurance laboratories
- Product development and technical service teams
- Third-party textile testing laboratories
- Brands, retailers, and sourcing teams reviewing wash fastness performance



Technical Specifications

For labs comparing wash fastness systems or planning installation, the specifications below summarize the main operating parameters, vessel configurations, and physical requirements of GenWashLab.

Parameter	Value
Model Options	D07A / D07B / D07C / D07D / D07E / D07F / D07G / D07X
Cup Composite Mode	2A+2B / 4A+4B / 6A+6B / 8A+8B / 12A+12B / 12A / 8B / Customized
AATCC Cup Volume (A)	40.6 fl oz (1200 mL)
ISO Cup Volume (B)	18.6 fl oz (550 mL)
Control Mode	Touchscreen
Rotation Speed	40 +/- 2 rpm
Temperature Control Range	Room temperature to 212F (100C)
Heating Method	Electrical heating
Stainless Steel Balls	Dia. 6 mm
Stainless Steel Dry-Cleaning Discs	Dia. 30 mm, thickness 3 mm, mass 20 g
Power Supply	3-phase AC 380 V, 50/60 Hz



Standards

GenWashLab supports a broad range of wash fastness methods used in textile testing laboratories across North American and international markets. The primary supported standards include:

- ISO 105-C01, C02, C03, C04, C05, C06, C08, C09, C10, D01, E03, E12
- GB/T 5711
- GB/T 3921-1 to 5
- GB/T 12490
- AATCC 3, 61, 62, 86, 132, 151, 190
- JIS L 0860
- JIS L 0844
- JIS L 0879
- M&S C4A, C5, C37, P3B
- BS 1006 NEXT 2, 3, 5
- IWSTM 7, 115, 177, 193, 240, 241
- FTMS 191 Method 5610 / 5622

Standard Accessories

GenWashLab is supplied with the core items required to begin routine wash fastness testing in the lab.

- **Washing Cups:** 1 set
- **Stainless Steel Balls:** 200 pcs



Optional Accessories

A wide range of optional consumables and reference materials are available to support different methods, detergents, adjacent fabrics, and result evaluation workflows.

- SDC ECE Non-Phosphate Detergent (A)
- SDC ECE Phosphate Reference Detergent (B)
- SDC Soap Powder
- SDC TAED Powder
- SDC Sodium Perborate Tetrahydrate
- SDC ISO 105 F10 Multifibre Adjacent Fabric
- SDC ISO 105 F01 Wool Adjacent Fabric
- SDC ISO 105 F02 Viscose Rayon Adjacent Fabric
- SDC ISO 105 F03 Polyamide Adjacent Fabric
- SDC ISO 105 F04 Polyester Adjacent Fabric
- SDC ISO 105 F05 Acrylic Adjacent Fabric
- SDC ISO 105 F06 Silk Adjacent Fabric
- SDC ISO 105 F07 Secondary Acetate Adjacent Fabric
- Stainless Steel Dry-Cleaning Discs
- Gray Scale for Color Change
- Gray Scale for Staining

Need a Washing Fastness Tester That Fits Your Lab Workflow?

If your team is reviewing wash fastness equipment for dyed textiles, dry-cleaning procedures, or standards-based laundering tests, GenWashLab can be configured around your vessel requirements, method preferences, and lab throughput needs. Share your test standards, sample types, and workflow goals with NextGen Material Testing, and we will help you identify the right setup and prepare a quote for your application.