

adidas	Standard FTW/A&G	Document No PHM-FW0108 PHM-AG0108 (aka FT-08)	Version 12.1	Page: 1 / 5
				Approval Date: 17/12/2024
Quality Color	Courtauld Test			Effective Date: 01/01/2025
				Effective Until Further Notice

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Departments Affected: Suppliers, 3 rd party labs, Development and Sourcing Teams			
Version	Date	Modifications	Page
09	13.07.2018	Evaluation extended for materials with multiple layers	All
10	30.07.2020	Test method adjusted to new format	All
11	22.03.2021	Change grey scale ISO 105-A04 to ISO 105-A03	All
12	06.06.2024	Harmonization with A&G standards	All
Remarks:			

1 Purpose

Determination of the potential for yellowing of white and pastel- coloured yarns, fabrics and PU coated textiles caused by reaction between oxides of nitrogen and yellowing phenols (present in storage and fabric finishes).

2 Scope

All materials, components, complete uppers, bio TPU according to [Creation Portal](#)

3 Roles & Responsibilities

User Group	Responsibilities	Section	Detail	Link
Suppliers/ 3 rd party labs	Test Execution and Evaluation	Entire file	Required Equipment; Sample Preparation and Conditioning; Test Execution; Data Collection, Evaluation and Reporting.	5 ff.
Quality Teams; Material Teams; Operation Teams	Ensure Standard is executed			

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4 **Reference Documents/Terminology**

- ISO 105 - X18 - Textiles - Tests for colour fastness - Part X18: Assessment of the potential to phenolic yellowing of materials
- ISO 105 - A04 - Textiles - Tests for colour fastness - Part A04: Method for the instrumental assessment of the degree of staining of adjacent fabrics
- ISO 105 - A03 - Textiles - tests for colour fastness; part A03: grey scale for assessing staining
- PHM-FW0100/PHM-AG0100 - Fastness evaluation
- PHM-FW0002/PHM-AG0002 - Material Testing Conditions and Cutting
- Spectrophotometer Manual

5 **Specific Procedure**

5.1 **Equipment**

5.1.1 Equipment

- Oven, maintained at (50 ± 2) °C
- Spectrophotometer (e.g. Color Eye) with a measuring aperture of 4 mm/ 8 mm
- or Multilight comparison box

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5.1.2 Accessories

- Perspiration Stand (shown in figure 1)
- Additional weight and top plate of perspiration stand have a weight of (5 ± 0,1) kg
- Glass plates size (100 ± 1) mm x (40 ± 1) mm x (3 ± 0,5) mm
- Courtauld Test Kit
- Impregnated test paper size (100 ± 2) mm x (75 ± 2) mm. [Mind the expiry date of the supplier after opening the package.](#)
- Control fabric size (100 ± 2) mm x (30 ± 2) mm
- BHT free PE Film ([to be used only once](#))
- Adhesive tape
- Grey scale, compliant with ISO 105 - A03 (not older than 12 month)

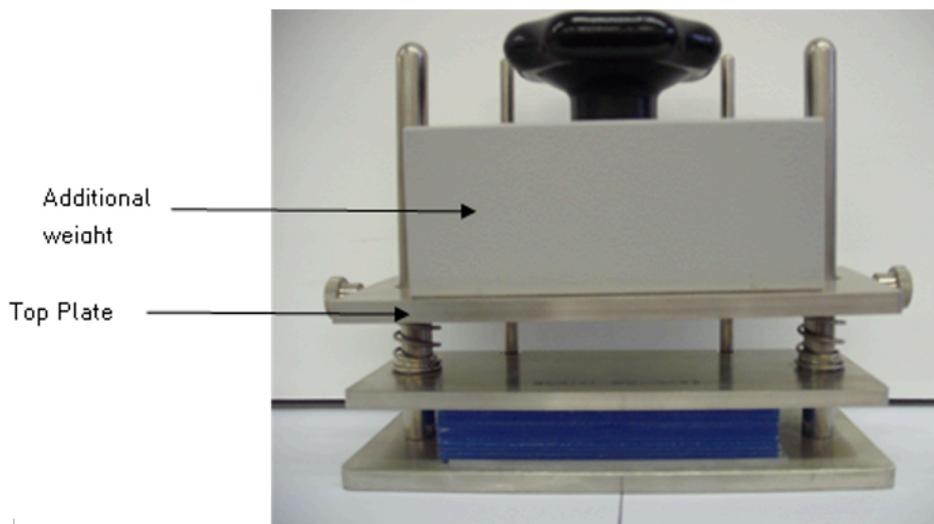


Figure 1 – Perspiration Stand

5.2 **Sample**

Specimen size: 1 specimen (100 ± 1) mm x (30 ± 1) mm

5.3 **Procedure**

- Fold the impregnated paper in half along its 100mm axis.
- Insert the test specimen between the layers of the folded paper (= sandwich). [Synthetic material sandwiches must be placed between 2 glass plates.](#) 5 sandwiches plus 1 control fabric maximum per package (see figure 2). The control fabric must also be inserted into the folded test paper.

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NOTE...

If less than 5 specimens are being tested, 7 glass plates should still be used in the package.

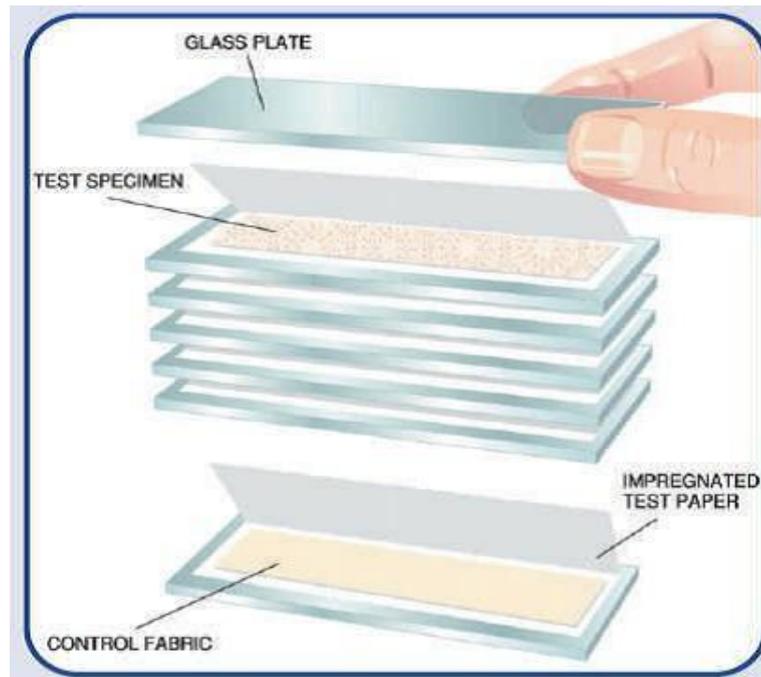


Figure 1 – Package View

- Wrap the package (= number of sandwiches) firmly in 3 layers of BHT free polyethylene film and seal all open edges with an adhesive tape.
- Place the package into the centre of the perspiration stand.
- Insert the top plate onto the perspiration stand. Additional weight and top plate should be equal to $5 \pm 0,1$ kg in total.
- Tighten the screws of the perspiration stand on the side so that the weight on the material is secured.
- After tightening screws, remove the additional weight (see figure 1).
- Place the stand in an oven at (50 ± 2) °C for $(16 \pm 0,25)$ h.
- Remove the stand from oven after the requested time and allow it to cool down for 30 minutes at room conditions.

5.4 Data Collection, Evaluation and Reporting

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- Assess the test specimen immediately after opening the test package since the color fades rapidly once exposed to air.
- Ensure the control fabric has yellowed to at least grade 3 using the colour stain grey scale or Spectrophotometer (see FT-00). This verifies that the test has been carried out successfully. If the control fabric does not exhibit yellowing, repeat the test using new materials and specimens.
- On multiple layer materials (e.g. synthetic materials with knitwear/ woven backer or double layer webbings) every layer must be evaluated separately.
- On synthetic materials with non-woven backer only the surface is evaluated.
- Measuring Unit: grade
- Data Storage and reporting in [CP](#)

6 Further Information



In all cases, the instruction manual according to the manufacturer including calibration and maintenance must be followed to ensure safety and quality.

7 Appendix

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