

	Division	Test Method ID	Version	Page: 1-4
	FTW A&G	PHX-FW0777	1.0	Effective Date: 23.09.2020
	Moisture Content Test - Footwear/A&G			Effective Until: Further Notice
Document Owner: Advanced Creation Testing – Lab Standards				
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Applicability - Brand: Adidas, Reebok		Division: FTW, A&G		

1. Objective

To measure the moisture content to prevent mold issue during storage and/or transport.

2. Scope

For all products which will be stored and/or transported.

3. Referenced documents

ISO 6741-1:1989-07 & ISO 6741-2:1987-04 Textiles, fibres and yarns – Determination of commercial mass of consignments

Documentation of the hand-held equipment supplier

4. Procedure

4.1 Spot check or material testing with hand held device:

- Test equipment Aqua-Boy (hand measuring machine) or any other device from a different supplier providing the same reading with comparable accuracy.
- average of min. three measurements

+ adidas Specification: The specimen (material or products) must be tested as received without any conditioning. It is recommended to store specimen in an air-tight plastic bag or any other equivalent container to prevent change of moisture content during transport and short-term storage.

4.2 Material test or finished product test applying a drying oven:

- Minimum three samples must be single and airtight packed and sent to an external lab
- Test method for Moisture content test according to ISO 6741-1/-2 (oven dry test)
- average of min. three measurements

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+ adidas Specification: The specimen (material or products) must be tested as received without any conditioning. It is recommended to store specimen in an air-tight plastic bag or any other equivalent container to prevent change of moisture content during transport and short-term storage.

The test object in case of product test is the entire product without any stuffing paper, labels, stickers and package.

+ adidas Specification: The drying conditions for “all other fibers” in table 1 of reference document shall be followed (105°C)

5. Precision and bias

Precision and bias have not been assessed for the handheld device.

For the oven test, please refer to the reference document.

6. Quality Assurance

Procedure 4.1: The Aqua-boy must be minimum once a year external calibrated as per the works-standard specification.

Procedure 4.2: Please follow reference documents

7. Safety

Please follow the safety instructions of the equipment suppliers and information in the reference documents.

8. Requirements

Material composition	Aqua Boy max. scale value	ISO 6741-1/-2 max. moisture content
Cotton and Cotton blends		
100% Cotton	≤ 56	≤ 7,0%
90% Cotton 10% Elastane/Spandex (Cotton content 85% - 99%)	≤ 56	≤ 7,0%
70% Cotton 30% Polyamide (Cotton content 65% - 75%)	≤ 59	≤ 6,1%
80% Cotton 20% Polyester (Cotton content 75%-85%)	≤ 59	≤ 6,0%
70% Cotton 30% Polyester (Cotton content 65% - 75%)	≤ 53	≤ 5,5%
60% Cotton 40% Polyester (Cotton content 55% - 65%)	≤ 45	≤ 5,0%
50% Cotton 50% Polyester (Cotton content 45% - 55%)	≤ 37	≤ 4,5%

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50% Cotton 50% Polyacrylic (Cotton content 45% - 55%)	≤ 62	≤ 4,5%
Viscose and Viscose blends		
100% Viscose/ Rayon/ Modal	≤ 59	≤ 13,0%
90% Viscose 10% Elastane/Spandex (Viscose content 85% - 99%)	≤ 59	≤ 13,0%
50% Viscose 50% Cotton (Viscose content 45% - 55%)	≤ 48	≤ 10,0%
80% Viscose 20% Polyamide (Viscose content 75%-85%)	≤ 59	≤ 11,2%
50% Viscose 50% Polyester (Viscose content 45% - 55%)	≤ 57	≤ 7,5%
30% Viscose 70% Polyester (Viscose content 25% - 35%)	≤ 62	≤ 5,3%
Other fibers and blends		
100% Linen/ Flax	≤ 67	≤ 11,0%
60% Linen 40% Cotton (Linen content 55% - 65%)	≤ 47	≤ 9,4%
100% Polyamide	≤ 67	≤ 4,0%
100% Polyacrylic	≤ 83	≤ 2,0%
100% Polyester	≤ 57	≤ 2,0%
100% Silk	tbd	≤ 7,0%
100% Straw and hemp	tbd	≤ 6.0%
100% Wool and other animal-based fibers	tbd	≤ 12.0%
Other materials		
100% Leather	≤ 22	≤ 17.0%
100% Foams	tbd	tbd
100% PU/PVC	tbd	≤ 2,0%
Packing paper, packaging carton boxes and corrugated export cartons	≤ 10	≤ 6.0%

Note: the list might not be conclusive and values for other fiber combinations can be calculated according to above table.

For full products, there is currently no requirement available because it strongly depends on the type and amount of used materials.

9. Data reporting

Test Method Code	UOM/Report	requirement	description	mandatory
PHX-FW0785-ED	%	See above table	Finished garment moisture content hand held electronic devise average value	no

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PHX-FW0785-OT	%	tbd	Finished garment moisture content oven test average value	no
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10. Document version history

Version	Date	Author	Notes
01	10.09.2020	Michael Otto	New Test Method (Additional to Mold Prevention Process)

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