

Letter of Commission

No.: -
Date: 18 March 2016
Date of arrival: 18 March 2016

Test Report

No.: 3/112-2016/A(E)
Date: 8 April 2016

Your Executive: Mr. Szilágyi

Our Executive: Mrs. Gábrriel

TEST REPORT

Customer: TEXTURA Kereskedelmi Kft.
Address: H-1147 Budapest, Ilosvai S. P. u. 10-12.

Tested sample: Woven fabric for work clothing (blue)
Designation: SUPRAMAX
Composition: 100% cotton
Mass per unit area: 245 g/m²

Annexes: Annex 1: Test results
Annex 2: Sample for identification

Date of arrival of sample: 18 March 2016
Date of testing: 21 March 2016 – 8 April 2016

Tests performed:

1. Raw material composition [MSZ 13560-2:1989 and Hungarian Order 25/2005 (IV. 29.) GKM Annex 5, 6 (eqv. EU directives)].
2. Mass per unit area [MSZ EN 12127:1999].
3. Number of threads per unit length [MSZ EN 1049-2:1999].
Method: A. Measuring distance: 5 cm.
4. Weave of fabric [ISO 7211-1:1984].
5. Dimensional stability in washing and drying [MSZ EN ISO 5077:2008].
Number of test specimens: 2. Number of washing and drying cycles: 5.
Detergent: ECE 98. Ballast: polyester fabric.
Washing machine: Wascator FOM 71 CLS (Type A2).
Washing, drying: MSZ EN ISO 6330:2001+ MSZ EN ISO 6330:2000/A1:2009.
Washing: Procedure 2A (60°C). Drying: Procedure E (tumble dry, low temp.).
6. Tensile test [MSZ EN ISO 13934-1:2000].
Gauge length: 200 mm. Rate of extension: 100 mm/min. Pretension: 5 N.
Type of device used: INSTRON 3369.
Number of test specimens: 5 (warp direction) + 5 (weft direction).

Blue



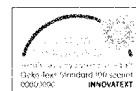
European Notified
Testing and Certification
Body No. 1523



VIZSGALÓ
NAT-1-1366:2012



Member of the European
Network of Textile
Research Organisations



Institute of the
International Association
OEKO-TEX®

7. Tear resistance [MSZ EN ISO 13937-2:2000].
Method of calculation: by electronic device. Type of device used: INSTRON 3369.
Number of test specimens: 5 (warp direction) + 5 (weft direction).
8. Abrasion resistance [MSZ EN ISO 12947-2:2000].
Pressure: 12 kPa. Type of device used: Martindale 403 (James H. Heal).
9. Abrasion resistance [MSZ 3496:2011, method A1].
Abrasive material: abrasive paper (P600). Load: 4,45 N.
Type of device used: Schiefer abrasion tester (Frazier Ltd.).
10. Abrasion resistance [MSZ 3496:2011, method A2].
Abrasive material: woven fabric under test. Load: 17,8 N.
Type of device used: Schiefer abrasion tester (Frazier Ltd.).
11. Colour fastness to artificial light [MSZ EN ISO 105-B02:2001+ MSZ EN ISO 105-B02:1999/A1:2002]. Type of device used: Xenotest 150 S+. Method used: 2.
Reference materials: Blue Wool References developed in Europe (1 to 8).
Exposure conditions: normal conditions (temperate zone).
12. Colour fastness to washing [MSZ EN 20105-C03:1995, 60°C].
Deviation from the standard: At the request of the customer polyester adjacent fabric was used instead of wool.
13. Colour fastness to perspiration [MSZ EN ISO 105-E04:2009].
Deviation from the standard: At the request of the customer polyester adjacent fabric was used instead of wool.
14. Colour fastness to dry cleaning [MSZ EN ISO 105-D01:2010].
15. Colour fastness to rubbing [MSZ EN ISO 105-X12:2003].
16. pH of aqueous extract [MSZ EN ISO 3071:2006].
Type of solution used: KCl solution.

- Notes:
- The test result relate only to the tested sample.
 - This Test Report (include Annexes) contains 4 pages, which can only be copied in full unless the written permission of the testing laboratory is obtained.
 - The testing laboratory is accredited by NAT. Accreditation number: NAT-1-1366/2012.
 - Validity of issued test report is proven by dry seal of INNOVATEXT Zrt. seen of pages of it.

Bodnyai Piroska
Ágnes Kovács
Head of Testing Department



European Notified
Testing and Certification
Body No. 1523



VIZSGÁLÓ
NAT-1-1366/2012



Member of the European
Network of Textile
Research Organisations



Institute of the
International Association
OEKO TEX®

Test Report No.:
3/112-2016/A (E)

Annex 1

INNOVATEXT®

Member of the HOHENSTEIN ● Group

TEST RESULTS

Tested parameters	Test results
Raw material composition	100% cotton
Mass per unit area (g/m ²)	251,2
Number of threads per unit length (per 10cm) warp / weft	400 / 176
Weave	Twill, 3/1 "S"
Dimensional stability in washing and drying, 60°C (%) 1x washed warp / weft 5x washed warp / weft	-0,3 / -1,3 +0,3 / -0,7
Breaking strength (N) warp / weft direction Elongation (%) warp / weft direction	1397 / 681 15,2 / 11,5
Tear resistance (N) -warp direction (across weft) -weft direction (across warp)	47,8 49,1
Abrasion resistance (MSZ EN ISO 12947-2) (rubs)	36670
Abrasion resistance (MSZ 3496:2011, A1) (revolutions)	2003
Abrasion resistance (MSZ 3496:2011, A2) (revolutions)	>22500
Colour fastness (degree)	
- to light	6
- to washing - colour change - staining (cotton/polyester)	4-5 4-5 / 4
- to perspiration - acid - colour change - staining (cotton/ polyester)	4-5 4 / 4-5
- alkaline - colour change - staining (cotton/ polyester)	5 4 / 4-5
- to dry cleaning - colour change - staining (cotton/wool)	4-5 4-5 / 4-5
- to rubbing (dry/wet)	4-5 / 3
pH of aqueous extract	8,5

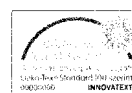
Bochnovic P. Kovacs
Ágnes Kovács
Head of Testing Department



European Notified
Testing and Certification
Body No. 1523



Member of the European
Network of Textile
Research Organisations



Institute of the
International Association
OEKO-TEX®

INNOVATEXT
Textilipari Műszaki Fejlesztő és Vizsgáló Intézet Zrt.
Textile Engineering and Testing Institute Co.

H-1103 Budapest, Gyömrői út 86.
Tel.: +36 1 262 2000
Fax: +36 1 261 5260

E-mail: textile@innovatext.hu
www.innovatext.hu

Céj.sz.: Fővárosi Törvényszék Cégbírósága 01-10-042356
Adószám: 10879267-2-42 EU-VAT: HU10879267
(HUF) IBAN: HU03 1020 0964 2024 3847 0000 0000
(EUR) IBAN: HU03 1040 5004 4956 4849 5649 1017
SWIFT-BIC: OKHBHUHB

Test Report No.:
3/112-2016/A (E)
Annex 2

INNOVATEXT®

Member of the HOHENSTEIN●Group

Sample for identification



Bochnovic Pithi Gyallai
Ágnes Kovács
Head of Testing Department



European Notified
Testing and Certification
Body No. 1523



Member of the European
Network of Textile
Research Organisations



Institute of the
International Association
OFKO-TEX®

INNOVATEXT
Textilipari Műszaki Fejlesztő és Vizsgáló Intézet Zrt.
Textile Engineering and Testing Institute Co.

H-1103 Budapest, Gyömrői út 86.
Tel.: +36 1 262 2000
Fax: +36 1 261 5260

E-mail: textile@innovatext.hu
www.innovatext.hu

Cégg.sz.: Fővárosi Törvényszék Cégbírósága 01-10-042356
Adószám: 10879267-2-42 EU-VAT: HU10879267
(HUF) IBAN: HU03 1020 0964 2024 3847 0000 0000
(EUR) IBAN: HU03 1040 5004 4956 4849 5649 1017
SWIFT-BIC: OKHBHUHB