

LABORATÓRIOS - V.N.FAMALICÃO



COMPANY

ARITEKS BOYACILIK TICARET VE SANAYI AS  
HEKIMSUYU CAD Nº 36  
KUCUKKOY ISTANBUL - TURKEY  
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Request Nr.: 2447/2019

Date of Reception : 2019/03/08

Observations

Samples reference - Your reference

4313/2019 - ArWoWear T11 Flame+Arc Pro4434(AM.a

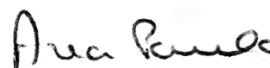
Tests required

Tests according EN 1149-5:2018  
Twill Woven ref. ArWoWear T11 Flame+Arc Pro - 4434 -  
Comp: 99%Cotton 1%Carbon  
Col: Navy - Weight: 360-390 g/m2 - Process 008/2019

- The tests were performed between the following dates: 2019/03/08 and 2019/03/18.

V.N.FAMALICÃO, 19th March 2019

LABORATORY  
COORDINATOR



(Eng<sup>a</sup> Ana Paula Fonte)

NOTES:

- These results were obtained according to the proceedings referred in the Quality Manual of CITEVE and concern only the samples submitted to testing (above mentioned).
- Any part of this report cannot be reproduced without the prior permission of CITEVE.
- The tests signalled by \* are not included in the scope of accreditation of this laboratory
- q.l - quantification limit                      d.l. - detection limit                      n.d. - not detected

## LABORATÓRIOS - V.N.FAMALICÃO

<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
4313 /2019	ArWoWear T11 Flame+Arc Pro4434(AM.a	1 Sample of twill woven

**Test/Standard:** *DIMENSIONAL STABILITY TO DOMESTIC WASHING AND DRYING / ISO 5077:2007*

### Results

Wales/length/warp (mean value %) -	-2,1
Courses/width/weft (mean value %) -	-2,7

### Test Conditions

Washing machine: Type A	
Washing programme (ISO 6330:2012):	3N (30°C)
Total load (kg): 2	
Type of load used:	Type III (100% polyester)
Detergent used: Ref 3 (ECE)	
Sodium perborate+TAED	
Drying method:	Tumble dry
Number of washing and drying cycles: 5	
Number of specimens tested: 3	
Note: the signal + means extension and the signal - means shrinkage.	

**Test/Standard:** *ELECTROSTATIC PROPERTIES: MEASUREMENT OF CHARGE DECAY / EN 1149-3:2004*

### Results

CHARGE DECAY HALF TIME (t50):	
Individual values (s):	<0,01 <0,01 <0,01
Arithmetic mean (s):	<0,01
Geometric mean (s):	<0,01
SHIELDING FACTOR (S):	
Individual values:	0,64 0,66 0,65
Arithmetic mean:	0,65

### Test Conditions

Method used: 2 (induction charging)	
Time measurement: 30 s	
Number of specimen tested: 3	
Pre-treatment:	
Washing programme (ISO 6330:2012):	3N (30°C)
Drying procedure:	Tumble dry

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Detergent used: IEC+Sodium perborate+TAED

Number of cycles: 5

Atmosphere for conditioning and testing:

(23+/-1)°C; (25+/-5)% relative humidity

**Test/Standard:** *pH OF AQUEOUS EXTRACT / ISO 3071:2005*

### Results

Mean pH-value -	6,8
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### Test Conditions

Type of solution used -	KCl
pH of the extracting solution -	5,7
Temperature of the extracting solution -	20 °C

**Test/Standard:** *AROMATIC AMINES FROM AZO COLORANTS (without extraction) / EN ISO 14362-1:2017*

### Results

Results in mg/kg

4-Aminobiphenyl	< 5 (q.l.)
Benzidine	< 5 (q.l.)
4-Chloro-o-toluidine	< 5 (q.l.)
2-Naphthylamine	< 5 (q.l.)
<sup>a</sup> o-Aminoazotoluene	< 5 (q.l.)
<sup>a</sup> 5-Nitro-o-toluidine	< 5 (q.l.)
4-Chloroaniline	< 5 (q.l.)
2,4-Diaminoanisole	< 5 (q.l.)
4,4'-Diaminodiphenylmethane	< 5 (q.l.)
3,3'-Dichlorobenzidine	< 5 (q.l.)
3,3'-Dimethoxybenzidine	< 5 (q.l.)
3,3'-Dimethylbenzidine	< 5 (q.l.)
4,4'-Methylene-di-o-toluidine	< 5 (q.l.)
p-Cresidine	< 5 (q.l.)
4,4'-Methylene-bis-(2-chloraniline)	< 5 (q.l.)
4,4'-Oxydianiline	< 5 (q.l.)
4,4'-Thiodianiline	< 5 (q.l.)
o-Toluidine	< 5 (q.l.)
2,4-Diaminotoluene	< 5 (q.l.)
2,4,5-Trimethylaniline	< 5 (q.l.)
o-Anisidine	< 5 (q.l.)
2,4-Xylidine	< 5 (q.l.)
2,6-Xylidine	< 5 (q.l.)

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° 4-Aminoazobenzene

< 5 (q.l.)

<sup>a</sup>These amines are reduced to o-toluidine and 2,4-Diaminotoluene.

<sup>o</sup>This amine is reduced to aniline and/or 1,4-phenylenediamine. If detected an additional test must be performed.

### Test Conditions

Procedure: 10.2

Detection method:GC-MS

Quantification method:GC-MS or LC-MS

Confirmation method:LC-DAD or LC-MS

Detection limit: 1,5 mg/kg



Request2447\_Sample4313