

**LABORATÓRIOS - V.N.FAMALICÃO**



COMPANY  
**MTEX NS, S.A**  
**RUA ACADEMIA FC FAMALICÃO ,**  
**PAVILHAO 17**  
**4760-482- ESMERIZ -V.N.F.**

**Request Nr.:** 14404/2020

**Date of Reception :** 2020/07/27

**Observations**

**Samples reference - Your reference**

20858/2020 - 100% Cotton - Dives Colors

20861/2020 - 100%Cotton - Standard sample

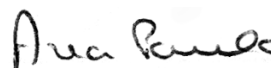
**Tests required**

Physical tests

- The tests were performed between the following dates: 2020/07/27 and 2020/08/05.

V.N.FAMALICÃO, 06th August 2020

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

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<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
20858 /2020	100% Cotton - Divs Colors	1 Sample of printed fabric

**Test/Standard:** COLOUR FASTNESS TO ARTIFICIAL LIGHT / ISO 105-B02:2014

**Results**

Colour fastness to light rating: > 5

**Test Conditions**

Apparatus: Air-cooled xenon arc lamp  
Exposure method: 3 (BS-5)  
Black standard temperature: 47+/-3°C  
Humidity test control: rating 5  
Evaluation with the blue wool scale

**Test/Standard:** COLOUR FASTNESS TO DRY RUBBING / ISO 105 X12:2016

**Results**

Staining (warp or length/weft or width): 3

**Notes:**

To test all colours it was necessary to prepare 8 specimens, the value displayed is the worst value found.

**Test Conditions**

Note: the referred value corresponds to the worst value found.  
Finger used: cylinder  
Force used: 9 N  
Direction of test: warp and weft or length and width  
Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

**Test/Standard:** COLOUR FASTNESS TO WET RUBBING / ISO 105 X12:2016

**Results**

Staining (warp or length/weft or width): 2-3

**Notes:**

To test all colours it was necessary to prepare 8 specimens, the value displayed is the worst value found.

**Test Conditions**

Note: the referred value corresponds to the worst value found.  
Finger used: cylinder  
Force used: 9 N  
Percentage of soak: 95% to 100%  
Direction of test: warp and weft or length and width  
Conditioning conditions: min 4 h at

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20+/-2°C and 65+/-4% R.H.

**Test/Standard: COLOUR FASTNESS TO WASHING / ISO 105 C06:2010**

**Results**

Colour change:	4-5
Colour staining on:	
Acetate / Triacetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool / Viscose	4-5

**Notes:**

To test all colours it was necessary to prepare 4 specimens, the value displayed is th worst value found.

**Test Conditions**

Test number: A2S (40°C)  
Number of stainless steel balls used: 10  
Treatment with acetic acid: No  
Detergent used: ECE  
Multifibre type: DW

<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
20861 /2020	100%Cotton - Standard sample	1 Sample of printed fabric

**Test/Standard: COLOUR FASTNESS TO ARTIFICIAL LIGHT / ISO 105-B02:2014**

**Results**

Colour fastness to light rating:	5
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**Test Conditions**

Apparatus: Air-cooled xenon arc lamp  
Exposure method: 3 (BS-5)  
Black standard temperature:47+/-3°C  
Humidity test control: rating 5  
Evaluation with the blue wool scale

**Test/Standard: COLOUR FASTNESS TO DRY RUBBING / ISO 105 X12:2016**

**Results**

Staining (warp or length/weft or width):	4-5
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### Test Conditions

Note: the referred value corresponds to the worst value found.

Finger used: cylinder

Force used: 9 N

Direction of test: warp and weft or length and width

Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

**Test/Standard:** *COLOUR FASTNESS TO WET RUBBING / ISO 105 X12:2016*

### Results

Staining (warp or length/weft or width):	4
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### Test Conditions

Note: the referred value corresponds to the worst value found.

Finger used: cylinder

Force used: 9 N

Percentage of soak: 95% to 100%

Direction of test: warp and weft or length and width

Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

**Test/Standard:** *COLOUR FASTNESS TO WASHING / ISO 105 C06:2010*

### Results

Colour change:	4
Colour staining on:	
Acetate / Triacetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	5
Acrylic	5
Wool / Viscose	5

### Test Conditions

Test number: A2S (40°C)

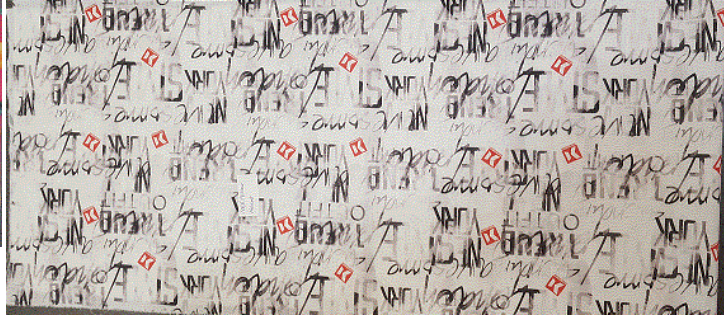
Number of stainless steel balls used: 10

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Treatment with acetic acid: No  
Detergent used: ECE  
Multifibre type: DW



Request 14404\_Sample 20858



Request 14404\_Sample 20861