

# TEST REPORT

**2024AN2450**

## DATE OF RECEPTION

Date Format: dd/MM/yyyy 15/10/2024

## DATE TESTS

Starting: 23/10/2024

Ending: 25/10/2024

## APPLICANT

GABRIEL A/S  
HJULMAGERVEJ, 55  
DK-9000 Ålborg  
Denmark

Att. BENTE ELLINGSOE

## IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer			AITEX sample description
2024AN2450-S01	TwillWool	1001	Light Grey	Fabric
2024AN2450-S02	TwillWool	1101	Grey	Fabric
2024AN2450-S03	TwillWool	1201	Black	Fabric
2024AN2450-S04	TwillWool	1301	Light Beige	Fabric
2024AN2450-S05	TwillWool	1401	Light Brown	Fabric
2024AN2450-S06	TwillWool	1202	Brown	Fabric
2024AN2450-S07	TwillWool	1501	Yellow	Fabric
2024AN2450-S08	TwillWool	1601	Orange	Fabric
2024AN2450-S09	TwillWool	1701	Orange Red	Fabric
2024AN2450-S10	TwillWool	1801	Light Brown Red	Fabric
2024AN2450-S11	TwillWool	1901	Light Violet	Fabric
2024AN2450-S12	TwillWool	1702	Red	Fabric
2024AN2450-S13	TwillWool	2001	Light Blue	Fabric
2024AN2450-S14	TwillWool	2101	Blue	Fabric
2024AN2450-S15	TwillWool	2102	Blue	Fabric
2024AN2450-S16	TwillWool	2201	Green	Fabric
2024AN2450-S17	TwillWool	2301	Green	Fabric

## TESTS CARRIED OUT

- COLOUR FASTNESS TO RUBBING.

Tests marked with \* are not included within the scope of the ENAC accreditation.





## RESULTS

### COLOUR FASTNESS TO RUBBING

**Standard**

AATCC TM 8:2016

**Apparatus**

Crockmeter

**Starting test date**

23/10/2024

**Ending test date**

25/10/2024

**Scale used**

AATCC Gray scale for staining (AATCC evaluation procedure 2)

Reference	Dry staining	Wet staining
2024AN2450-S01	5	5
2024AN2450-S02	5	5
2024AN2450-S03	4-5	4
2024AN2450-S04	5	4-5
2024AN2450-S05	4-5	4-5
2024AN2450-S06	4-5	4-5
2024AN2450-S07	5	4-5
2024AN2450-S08	4-5	4-5
2024AN2450-S09	4-5	4-5
2024AN2450-S10	4-5	4-5
2024AN2450-S11	5	4-5
2024AN2450-S12	4-5	4-5
2024AN2450-S13	5	5
2024AN2450-S14	5	4-5
2024AN2450-S15	5	5
2024AN2450-S16	5	5
2024AN2450-S17	5	5

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Reference by AITEX	Reference by customer
2024AN2450-S01	TwilWool 1001 Light Grey
2024AN2450-S02	TwilWool 1101 Grey
2024AN2450-S03	TwilWool 1201 Black
2024AN2450-S04	TwilWool 1301 Light Beige
2024AN2450-S05	TwilWool 1401 Light Brown
2024AN2450-S06	TwilWool 1202 Brown
2024AN2450-S07	TwilWool 1501 Yellow
2024AN2450-S08	TwilWool 1601 Orange
2024AN2450-S09	TwilWool 1701 Orange Red
2024AN2450-S10	TwilWool 1801 Light Brown Red
2024AN2450-S11	TwilWool 1901 Light Violet
2024AN2450-S12	TwilWool 1702 Red
2024AN2450-S13	TwilWool 2001 Light Blue
2024AN2450-S14	TwilWool 2101 Blue
2024AN2450-S15	TwilWool 2102 Blue
2024AN2450-S16	TwilWool 2201 Green
2024AN2450-S17	TwilWool 2301 Green



## RESULTS

### COLOUR FASTNESS TO RUBBING

**Standard**

ISO 105-X12:2016

**Apparatus**

Crockmeter

**Starting test date**

23/10/2024

**Ending test date**

25/10/2024

**Conditioning time**

&gt; 4 H

**Atmosphere for conditioning and testing**

<b>Temperature</b>	(20±2) °C
<b>Relative Humidity</b>	(65±2) %Hr

**Pin**

Cylindrical

**Applied force**

(9 ± 0,2) N

**% of water absorption for rubbing in humid**

95-100 %



REFERENCE	DIRECTION	DRY STAINING	WET STAINING
2024AN2450-S01	Warp	5	5
	Weft	5	5
2024AN2450-S02	Warp	5	5
	Weft	5	5
2024AN2450-S03	Warp	4-5	4
	Weft	4-5	4
2024AN2450-S04	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S05	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S06	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S07	Warp	5	4-5
	Weft	5	4-5
2024AN2450-S08	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S09	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S10	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S11	Warp	5	4-5
	Weft	5	4-5
2024AN2450-S12	Warp	4-5	4-5
	Weft	4-5	4-5
2024AN2450-S13	Warp	5	5
	Weft	5	5
2024AN2450-S14	Warp	5	4-5
	Weft	5	4-5
2024AN2450-S15	Warp	5	5
	Weft	5	5
2024AN2450-S16	Warp	5	5
	Weft	5	5
2024AN2450-S17	Warp	5	5
	Weft	5	5



REFERENCE	DIRECTION	CHANGUE IN COLOUR DRY	CHANGUE IN COLOUR WET
2024AN2450-S01	Warp	5	5
	Weft	5	5
2024AN2450-S02	Warp	5	5
	Weft	5	5
2024AN2450-S03	Warp	5	5
	Weft	5	5
2024AN2450-S04	Warp	5	5
	Weft	5	5
2024AN2450-S05	Warp	5	5
	Weft	5	5
2024AN2450-S06	Warp	5	5
	Weft	5	5
2024AN2450-S07	Warp	5	5
	Weft	5	5
2024AN2450-S08	Warp	5	5
	Weft	5	5
2024AN2450-S09	Warp	5	5
	Weft	5	5
2024AN2450-S10	Warp	5	5
	Weft	5	5
2024AN2450-S11	Warp	5	5
	Weft	5	5
2024AN2450-S12	Warp	5	5
	Weft	5	5
2024AN2450-S13	Warp	5	5
	Weft	5	5
2024AN2450-S14	Warp	5	5
	Weft	5	5
2024AN2450-S15	Warp	5	5
	Weft	5	5
2024AN2450-S16	Warp	5	5
	Weft	5	5
2024AN2450-S17	Warp	5	5
	Weft	5	5

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Reference by AITEX	Reference by customer
2024AN2450-S01	TwillWool 1001 Light Grey
2024AN2450-S02	TwillWool 1101 Grey
2024AN2450-S03	TwillWool 1201 Black
2024AN2450-S04	TwillWool 1301 Light Beige
2024AN2450-S05	TwillWool 1401 Light Brown
2024AN2450-S06	TwillWool 1202 Brown
2024AN2450-S07	TwillWool 1501 Yellow
2024AN2450-S08	TwillWool 1601 Orange
2024AN2450-S09	TwillWool 1701 Orange Red
2024AN2450-S10	TwillWool 1801 Light Brown Red
2024AN2450-S11	TwillWool 1901 Light Violet
2024AN2450-S12	TwillWool 1702 Red
2024AN2450-S13	TwillWool 2001 Light Blue
2024AN2450-S14	TwillWool 2101 Blue
2024AN2450-S15	TwillWool 2102 Blue
2024AN2450-S16	TwillWool 2201 Green
2024AN2450-S17	TwillWool 2301 Green

**MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE**

<b>VALUE</b>	<b>MEANING</b>
5	VERY GOOD - EXCELLENT
4	GOOD
3	FAIR - MODERATE
2	POOR - BEHAVIOUR
1	VERY POOR

According to standards ISO 105-A02 e ISO 105-A03



**Isabel Soriano**  
Laboratories and International Offices Subdirector



Date: 25/10/2024 14:58:49

Digitally Signed by: MARIA ISABEL SORIANO SARRIO -

NIF:52716426N

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