

HeiQ Testing Services Report

LS20-00610

Report date: April 20, 2020

Customer: Tintoria Manifattura Barbara

Brand: Cifra

Index

- Test overview and summary
- Application data
- Water Repellency Testing management data
- Test costs information (Pro-Forma invoice)
- Annexes to the test report

Test report overview

General Info	Name	Contact	HeiQ KAM
Customer	Tintoria Manifattura Barbara	G. Moreni	S. Taruselli
Distributor	-	-	-
Brand owner	Cifra	-	S. Taruselli
Brand label	-	Application at	Client
Reason for testing	QA for client	Application by	Exhaust application
HeiQ Effects	HeiQ Eco Dry / HeiQ Fresh	Scale	Pilot plant

Test methods carried out in this report

Effect / Property	Testing standard	Test parameter
Domestic laundering	ISO 6330:2013	3G: 30°C, gentle setting (wool silk synthetics)
Conditioning of textiles	ISO139:2005	Conditioning of textiles before testing
Water repellency: Spray test	AATCC TM 22-2014	Spray test for water repellency
Water/alcohol resistance test	AATCC TM 193-2012	Test method repelling water/alcohol blends

Test results: Good effect level

Test summary / comments:

Fabric treated with combination of HeiQ ECO DRY + Viroblock NPJ03 shows good performance at Spray and water/alcohol test.

Antimicrobial test results will follow with separate report (LS20-00611)

Samples, finishing process and textile information

Sample number	Sample description
1	FACE MASK, WHITE; Viroblock NPJ03 10%, ECO DRY 8%

Recipe	Sample number
Product	1
Viroblock NPJ03 [%]	10
Barrier ECO-DRY [%]	8
Parameters	1
Liquor ratio [none]	10
pH [-
Heating rate [°C/min]	-
Temperature [°C]	-
Time [min]	-
Drying Temp. [°C]	90
Drying Time [min]	30
Substrates	1
Polyamid [%]	
Elastane (Polyurethane) [%]	
Textile information	1
Weight [g/m2]	-
Construction	-
Structure	-

Legend:

Construction process	Textile structure

Water Repellency Testing

Recipe	Sample number	
Product	1	
Viroblock NPJ03 [%]	10	
Barrier ECO-DRY [%]	8	
ISO 6330 parameters	1-1	1-2
Wash cycles 3G	0	10
Drying conditions		F

ISO 139: Conditioning of textiles (water repellency)

Sub-Samples	1-1	1-2
Drying Temp. [°C]	-	-
Drying Time [min]	-	-
Conditioning temperature [°C]	ambient	ambient
Conditioning time [h]	72	72
Relative humidity Conditioning [%RH]	-	-

AATCC 022: Spray test for water repellency

Sub-Samples	1-1	1-2
Test target AATCC 22 scale	-	-
Spray rating AATCC 22 scale	95	90

AATCC 193 (Water-IPA /8)

Sub-Samples	1-1	1-2
Test target Water-IPA (/8)	-	-
Water/Alcohol rating	4.0	3.0

Test costs information (Pro-Forma invoice)

Item	Price per item	No item	Costs
LIMS license + reporting	250	1	250
AATCC 22: Spray test	20	2	40
AATCC 193: Water-Alcohol test (/8)	10	2	20
ISO 6330 3G (delicate)	7	11	77

Total value of this report: USD 387.-