

Test Report No.: **GCDUBTX2101155**

Date: **09-05-2021**

## SUBMITTED SAMPLE



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## Applicant Details

Applicant	GEEBEE GARMENTS
Address	Sharjah, United Arab Emirates.

## Sample Details as Provided by Customer:

Sample Description	BOTTOM (TROUSER)
Brand Name	DUPONT
Style Number	NC300RNV38601200
Tracing Number	GBA0091641
Colour(s)	Navy
Fiber Content	93% Nomex® Meta-Aramid 5% Kevlar® Para-Aramid 2% Carbon/Nylon Antistatic Fiber
Country of Origin	UAE (Assembled in)
End Use	Trouser
Size	38 R
Date of Received	05 May 2021
Testing Period	05 May 2021 to 09 May 2021

Remark: Sample not drawn by Geo-Chem Middle East.

For and on behalf of  
Geo-Chem Middle East



Pooventhiran. T  
Laboratory Manager

Test result is drawn according to the kind and extent tests performed. Without permission of the tests center this report is not permitted to be duplicated in extracts. This report does not entitle to carry any safety mark on this or similar products. Statement of conformity and decision rule will be given (if applicable). This test report represents the test parameters as requested by the customer based on submitted sample as Received only.

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## Conclusion

S.No.	Tests Conducted	
1	Fiber Composition	M
2	pH Value <input type="checkbox"/>	M
3	Formaldehyde Content <input type="checkbox"/>	M
4	Colour Fastness to Washing <input type="checkbox"/>	M
5	Colour Fastness to Perspiration <input type="checkbox"/>	M
6	Colour Fastness to Rubbing <input type="checkbox"/>	M
7	Flame Retardants ¥	M
8	Extractable Heavy Metal ¥	M
9	Azo Dyes ¥	M
10	Carcinogenic Dyes ¥	M
11	Allergenic Dyes ¥	M

Note: M = Meets Requirement      F = Does not Meet Requirement  
 \* = Not Provided      NA= Not Applicable  
 = The tests are under GAC Accreditation  
 ¥ = Test Subcontracted to ISO 17025 Accredited Lab

## Test Results

1. Fiber Composition		
(SASO ISO 1833-2: 2007) On Garment Basis		
Composition		Requirement
	93.9% Meta-Aramid 4.4% Para-Aramid 1.7% Nylon	93% Nomex® Meta-Aramid 5% Kevlar® Para-Aramid 2% Carbon/Nylon Antistatic Fiber Tol: ±5%
Remark: Annex IX of Regulation (EU No. 1007/2011 repeating directive 73/44/EEC and directive 96/73/EC and 2008/121/EC		

2. pH Value <input type="checkbox"/>		
(SASO ISO 3071: 2014)		
Result		Requirement
	4.9	4.0 to 7.5

3. Formaldehyde Content <input type="checkbox"/>		
(SASO ISO 14184-1: 2014)		
Result		Requirement
	Not Detectable (<16 ppm)	<75 ppm
Remark: ppm = Parts per Million		

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## Test Results

<b>4. Colour Fastness to Washing</b> □		
(SASO ISO 105 C10: 2007/ C3 Test, 30 mins Mechanical Wash at 60°C in 0.5% Standard Soap Solution & 0.2% Sodium Carbonate (Anhydrous) Solution)		
		<b>Requirement</b>
Colour Change	4	4 Min
Colour Staining		
Di Acetate	4	4 Min
Cotton	4-5	
Nylon	4	
Polyester	4	
Acrylic	4	
Wool	4-5	
Self-Staining	-	
Grey Scale Rating: 5 = Excellent, 4 = Good, 3 = Fair, 2 = Poor & 1 = Very Poor		

<b>5. Colour Fastness to Perspiration</b> □			
(SASO GSO 1268: 2002)			
	<b>Acid</b>	<b>Alkaline</b>	<b>Requirement</b>
Colour Change	4-5	4-5	3-4 Min
Colour Staining			
Di Acetate	3-4	4	
Cotton	4-5	4-5	
Nylon	3-4	3-4	
Polyester	4	4	
Acrylic	4	4-5	
Wool	4-5	4-5	
Self-Staining	-	-	
Grey Scale Rating: 5 = Excellent, 4 = Good, 3 = Fair, 2 = Poor & 1 = Very Poor			

<b>6. Colour Fastness to Rubbing</b> □		
(SASO ISO 105 X12: 2005)		
		<b>Requirement</b>
Dry	4	4 Min
Grey Scale Rating: 5 = Excellent, 4 = Good, 3 = Fair, 2 = Poor & 1 = Very Poor		

<b>7. Flame Retardants</b> ¥			
<b>Method</b>	<b>Result</b>		<b>Requirement</b>
SASO ISO 17881-1	PBB	ND	Not Used
SASO ISO 17881-2	TRIS	ND	
	Tris (aziridinyI)	ND	

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## Test Results

8. Extractable Heavy Metal ¥			
(EN 16711-2)			
Heavy Metal	Detection Limit (ppm)	Result (ppm)	Requirement (ppm)
SOL. Lead (Pb)	<0.1 ppm	<0.1 ppm	<1.0 ppm
SOL. Cadmium (cd)	<0.1 ppm	<0.1 ppm	<0.1 ppm
SOL. Antimony (Sb)	<0.1 ppm	<0.1 ppm	<30 ppm
SOL. Chromium VI (Cr VI)	<0.1 ppm	<0.1 ppm	<0.5 ppm
SOL. Chromium (Cr)	<0.1 ppm	<0.1 ppm	<2.0 ppm
SOL. Arsenic (As)	<0.1 ppm	<0.1 ppm	<1.0 ppm
SOL. Cobalt (Co)	<0.1 ppm	<0.1 ppm	<4.0 ppm
SOL. Copper (Cu)	<0.1 ppm	<0.1 ppm	<50 ppm
SOL. Nickel (Ni)	<0.1 ppm	<0.1 ppm	<4.0 ppm
SOL. Mercury (Hg)	<0.02 ppm	<0.02 ppm	<0.02 ppm

9. Azo Dyes ¥			
EN ISO 14362-1: 2017 As Per EN Regulations Test Procedure for Detection of the Use of Certain Azo Colorants by Using Gas Chromatographic-Mass Spectrometric (GC-MS) And High-Performance Liquid Chromatographic (HPLC) Analysis.			
Amines	CAS-No	Results	Requirement
4-AMINOBIIPHENYL	92-67-1	ND	Not Detected
BENZIDINE	92-87-5	ND	
4-CHLORO-O-TOLUIDINE	95-69-2	ND	
2-NAPHTHYLAMINE	91-59-8	ND	
O-AMINOAZOTOLUENE	97-56-3	ND	
2-AMINO-4-NITROTOLUENE	99-55-8	ND	
P-CHLOROANILINE	106-47-8	ND	
2,4-DIAMINOANISOLE	615-05-4	ND	
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	ND	
3,3'-DICHLOROBENZIDINE	91-94-1	ND	
3,3'-DIMETHOXYBENZIDINE	119-90-4	ND	
3,3'-DIMETHYLBENZIDINE	119-93-7	ND	
3,3'-DIMETHYL-4,4'-DIAMINOBIIPHENYLMETHANE	838-88-0	ND	
P-CRESIDINE	120-71-8	ND	
4,4'-METHYLENE-BIS-(2- CHLOROANILINE)	101-14-4	ND	
4,4'-OXYDIANILINE	101-80-4	ND	
4,4'-THIODIANILINE	139-65-1	ND	
O-TOLUIDINE	95-53-4	ND	
2,4-TOLUENEDIAMINE	95-80-7	ND	
2,4,5-TRIMETHYLANILINE	137-17-7	ND	
2-METHOXYANILINE	90-04-0	ND	
P-AMINOAZOBENZENE	60-09-3	ND	
2,6 XYLIDINE	87-62-7	ND	
2,4-XYLIDINE	95-68-1	ND	
Summary : Presence of Carcinogenic Amines		ND	
Remark: Detection Limit = 5 ppm ND = Not Detected			

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## Test Results

10. Carcinogenic Dyes ¥		
(SASO ISO 16373-2)		
Analytes	Result (mg/kg)	Requirement
Acid Red 26	ND	Not Detected
Basic Blue 26	ND	
Basic Green 4	ND	
Basic Red 9	ND	
Basic Violet 14	ND	
Direct Black 38	ND	
Direct Blue 3	ND	
Direct Blue 6	ND	
Direct Red 28	ND	
Disperse Blue 1	ND	
Disperse Orange 11	ND	
Remark: Minimum Detection Limit: 15mg/kg in extract, ND: Not Detected		

11. Allergenic Dyes ¥		
(SASO ISO 16373-2)		
Analytes	Result (mg/kg)	Requirement
Disperse Blue 3	ND	Not Detected
Disperse Blue 7	ND	
Disperse Blue 26	ND	
Disperse Blue 35	ND	
Disperse Blue 102	ND	
Disperse Blue 106	ND	
Disperse Blue 124	ND	
Disperse Brown 1	ND	
Disperse Orange 1	ND	
Disperse Orange 3	ND	
Disperse Orange 37	ND	
Disperse Orange 59	ND	
Disperse Orange 76	ND	
Disperse Red 1	ND	
Disperse Red 11	ND	
Disperse Red 17	ND	
Disperse Yellow 1	ND	
Disperse Yellow 3	ND	
Disperse Yellow 9	ND	
Disperse Yellow 39	ND	
Disperse Yellow 49	ND	
Remark: Detection Limit: 2 mg/kg, ND: Not Detected		

# END OF TEST REPORT #