

**TEST REPORT**

APPLICANT : Alter X

ATTENTION : Alter X

Sample Description As Declared : Men's t-shirt  
Fiber Content : 60% Hemp Viscose 40% Organic Cotton  
Buyer : Alter X  
Style No. : 772111  
Order No./PO No. : 001  
Fabric Weight : 9 oz  
Size Range : Adult  
Color : Black  
Care Instruction : Machine Wash Cold  
Dry Normal  
Do Not Bleach  
Wash Less Often  
Give Air Dry A Try  
Date Received : 23-Sep-2021  
Testing Period : 24-Sep-2021 ~ 05-Oct-2021

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Test Conducted:  
As per the request of the applicant, for details please refer to attached page(s).

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Authorized By :  
For Intertek Testing Services Korea Ltd.[KOREA-TXT]



Jack Kim  
General Manager

**TEST REPORT**

Conclusion

Color Fastness To Washing	#
Color Fastness To Crocking	#
Total Lead	P
Phthalates	P
Formaldehyde	#
pH Value	#
Organotin Compounds - XRF screening	#
Azo Dyes	#
Carcinogenic/ Allergenic Dyes	#
Extractable Heavy Metals	#
Release of Nickel	N/A

Note : P= Pass  
N/A = Not Applicable

F = Fail  
# = No Specified Requirement

**TEST REPORT**

Tests Conducted (As Requested By The Applicant)

1 Color Fastness To Washing (AATCC TM61-2013e2(2020), Test No. 2A modified, 45 Minutes, Mechanical Wash At 105°F in 0.15%, 50 Steel Balls):

		<u>Requirement</u>
Color Change	4.5	-
Color Staining		
-Acetate	4.5	
-Cotton	3.0	
-Nylon	4.5	
-Silk	4.5	
-Rayon	4.5	
-Wool	4.5	

2 Color Fastness To Crocking (AATCC TM8-2016e):

	Body	Rib	<u>Requirement</u>
Dry	4.5	4.5	-
Wet	2.0	2.0	

3 Total Lead (CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3 or CPSC-CH-E1003-09.1):

	(1)	<u>Requirement</u>
	<20 mg/kg	Substrate: Max. 100 mg/kg
Detection Limit: 20 mg/kg		
Tested Components:		
(1) Printed Care Label (Black)		

4 Phthalate (CPSC-CH-C1001-09.4):

	(1)	<u>Requirement</u>
Dibutyl Phthalate (DBP)	<100 mg/kg	Max. 1000 mg/kg
Diethyl Hexyl Phthalate (DEHP)	<100 mg/kg	
Benzyl Butyl Phthalate (BBP)	<100 mg/kg	
Di-Iso-Nonyl Phthalate (DINP)	<100 mg/kg	
Di-n-hexyl Phthalate (DnHP)(DHEXP)	<100 mg/kg	
Diisobutyl Phthalate (DIBP)	<100 mg/kg	
Dicyclohexyl Phthalate (DCHP)	<100 mg/kg	
D-n-pentyl Phthalate (DPP, DPENP, DnPP)	<100 mg/kg	
Sum of Phthalate	<1000 mg/kg	
Detection Limit: 100 mg/kg		
Tested Components:		
(1) Printed Care Label (Black)		

5 Formaldehyde (JIS L 1041: 2011):

	(1)	(2)	(3)	<u>Requirement</u>
	<5 mg/kg	<5 mg/kg	<5 mg/kg	-
Detection Limit: 5 mg/kg				
Tested Components:				
(1) Shell (Neck Tape)				
(2) Rib				
(3) Main/Deco/Size Label (Black, Ivory, Grey)				

**TEST REPORT**

6 pH Value (AATCC TM81-1996e2(2016)e):

7.1	<u>Requirement</u>
	-

7 Organotin Compounds (As per standard operating procedure for determining total metals content digested with microwave and/or acid, analyzed by inductively coupled argon plasma spectrometry):

Sn (Tin)	(1)	<u>Requirement</u>
	<0.5 mg/kg	-

Tested Components:  
(1) Printed Care Label (Black)

8 Azo Dyes (EN ISO 14362-1: 2017):

	(1)	<u>Requirement</u>
4-Aminodiphenyl	ND	
Benzidine	ND	
4-Chloro-o-Toluidine	ND	
2-Naphthylamine	ND	
o-Aminoazotoluene	ND	
2-Amino-4-Nitrotoluene	ND	
p-Chloroaniline	ND	
2,4-Diaminoanisole	ND	
4,4'-Diaminodiphenylmethane	ND	
3,3'-Dichlorobenzidine	ND	
3,3'-Dimethoxybenzidine	ND	-
3,3'-Dimethylbenzidine	ND	
4,4'-methylenedi-o-toluidine	ND	
p-Cresidine	ND	
4,4'-Methylene-Bis(2-Chloroaniline)	ND	
4,4'-Oxydianiline	ND	
4,4'-Thiodianiline	ND	
o-Toluidine	ND	
2,4-Toluylenediamine	ND	
2,4,5-Trimethylaniline	ND	
o-Anisidine	ND	
p-Aminoazobenzene	ND	

Remark:

Detection Limit: 5 mg/kg

Tested Components:

(1) Shell (Neck Tape) / Rib

**TEST REPORT**

9 Carcinogenic/ Allergenic Dyes (DIN 54231: 2015):

	(1)	<u>Requirement</u>
Disperse Blue 1	ND	
Disperse Blue 3	ND	
Disperse Blue 7	ND	
Disperse Blue 26	ND	
Disperse Blue 35 A	ND	
Disperse Blue 35 B	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 11	ND	
Disperse Orange 37/59/76	ND	
Disperse Orange 149	ND	
Disperse Red 1	ND	
Disperse Red 11	ND	
Disperse Red 17	ND	
Disperse Red 151	ND	
Disperse Yellow 1	ND	
Disperse Yellow 3	ND	Not Detected
Disperse Yellow 7	ND	
Disperse Yellow 9	ND	
Disperse Yellow 23	ND	
Disperse Yellow 39	ND	
Disperse Yellow 49	ND	
Disperse Yellow 56	ND	
Acid Red 26	ND	
Basic Red 9	ND	
Basic Green 4	ND	
Basic Violet 3	ND	
Basic Violet 14	ND	
Basic Blue 26	ND	
Direct Black 38	ND	
Direct Blue 6	ND	
Direct Red 28	ND	
Direct Brown 95	ND	
Solvent Yellow 2	ND	
Solvent Blue 4	ND	
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	ND	

Remark:

Reporting Limit: 15 mg/kg

Tested Components:

(1) Shell (Neck Tape) / Rib

**TEST REPORT**

10 Extractable Heavy Metals (ASTM F963-17):

	(1)	(2)	(3)	<u>Requirement</u>
Soluble Barium (Ba)	<5 mg/kg	<5 mg/kg	<5 mg/kg	1,000
Soluble Lead (Pb)	<5 mg/kg	<5 mg/kg	<5 mg/kg	90
Soluble Cadmium (Cd)	<5 mg/kg	<5 mg/kg	<5 mg/kg	75
Soluble Antimony (Sb)	<5 mg/kg	<5 mg/kg	<5 mg/kg	60
Soluble Selenium (Se)	<5 mg/kg	<5 mg/kg	<5 mg/kg	500
Soluble Chromium (Cr)	<5 mg/kg	<5 mg/kg	<5 mg/kg	60
Soluble Mercury (Hg)	<5 mg/kg	<5 mg/kg	<5 mg/kg	60
Soluble Arsenic (As)	<5 mg/kg	<5 mg/kg	<5 mg/kg	25

Remark : ppm = parts per million = mg/kg

Tested Components:

- (1) Shell (Neck Tape)
- (2) Rib
- (3) Main/Deco/Size Label (Black, Ivory, Grey)

## End of The Test Report ##

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**TEST REPORT**

\* View of sample as received :

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