



**BUREAU
VERITAS**

TEST REPORT

Technical Report: (9313)272-0755

October 17, 2013

Date Received: October 15, 2013

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福建省石狮市宝盖科技园

Sample Description: 胶浆印花布样(白色, 红白相间)
H&M Order Number: /
Supplier: /
Date of Testing: OCTOBER 15, 2013 to OCTOBER 17, 2013
Number of Working Days: 3
Priority: REGULAR

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Azo Dyes Content Test	-	See Result(s) in Page 3
Appearance After Washing	-	See Result(s) in Page 4
Colourfastness To Rubbing	-	See Result(s) in Page 4

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

CHARLES WONG
ANALYTICAL LAB MANAGER

REMARK

If there are questions or concerns on this report, please contact:

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Photo of the Submitted Sample



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TEST RESULT

Azo Dyes Content Test (Analysis of Amines in Azo Dyestuffs)

Test Method I : European Standard EN 14362-1: 2012.

Test Method II : European Standard EN ISO 17234-1: 2010.

Test Method III : European Standard EN 14362-3: 2012. (For textile);
European Standard EN ISO 17234-2: 2011. (For leather)

Quantification analysis by Gas Chromatograph Mass Spectrometer (GC-MS) and confirmation by Liquid Chromatograph Diode Array Detector (LC-DAD).

Tested Item(s) : I001 White fabric with white print (style 1)

Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
I001	I	ND	ND	ppm	-

Note:

ND = Not detected

ppm = part(s) per million = mg/kg

Detection Limit (ppm) : Each : 10

">" = More than

mg/kg = milligram(s) per kilogram

Conc. = Concentration

Remark:

- The list of amines in azo dyestuff is summarized in table of Appendix.
- Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of this method. Aniline and 1,4-phenylenediamine are not detected under the condition of this method.
- The test(s) is/are not applicable to the received sample(s) as and material(s) of the sample(s) is/are out of scope of client specification.



TEST RESULT

APPEARANCE AFTER WASHING (REFERENCE ISO 6330:2000+A1:2008, TEST NO. 5
A, MACHINE WASH AT 40 DEGREE CELSIUS, TUMBLE DRY LOW, AFTER FIVE
WASHES)

Tested Item(s): I002: WHITE FABRIC WITH WHITE/RED PRINT

COLOUR CHANGE – 4-5

GENERAL EVALUATION - SATISFACTORY

COLOURFASTNESS TO RUBBING (ISO 105-X12:2001)

Tested Item(s): I002: WHITE FABRIC WITH WHITE/RED PRINT

<u>BEFORE WASH</u>	<u>FACE</u>	<u>REVERSE</u>
DRY	3-4	4-5
<u>AFTER WASH</u>	<u>FACE</u>	<u>REVERSE</u>
DRY	4-5	4-5
<u>BEFORE WASH</u>	<u>FACE</u>	<u>REVERSE</u>
WET	4-5	4-5
<u>AFTER WASH</u>	<u>FACE</u>	<u>REVERSE</u>
WET	4-5	4-5

COLOURFASTNESS RATING

GRADE 5 NEGLIGIBLE OR NO STAINING

GRADE 4 SLIGHTLY STAINED

GRADE 3 NOTICEABLY STAINED

GRADE 2 CONSIDERABLY STAINED

GRADE 1 HEAVILY STAINED

END



APPENDIX

List of Amines in Azo Dyestuff :					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl- 4,4'-diaminodiphenylmethane)	838-88-0
2	Benzidine	92-87-5	14	p-Cresidine	120-71-8
3	4-Chloro-o-toluidine	95-69-2	15	4,4'-Methylene-bis-(2- chloraniline)	101-14-4
4	2-Naphthylamine	91-59-8	16	4,4'-Oxydianiline	101-80-4
5	o-Aminoazotoluene	97-56-3	17	4,4'-Thiodianiline	139-65-1
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	18	o-Toluidine	95-53-4
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	20	2,4,5-Trimethylaniline	137-17-7
9	4,4'-Methylenedianiline (4,4'-Diaminodiphenylmethane)	101-77-9	21	o-Anisidine	90-04-0
10	3,3'-Dichlorobenzidine	91-94-1	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	23	2,4-Xylidine	95-68-1
12	3,3'-Dimethylbenzidine (4,4'-Bi-o-toluidine)	119-93-7	24	2,6-Xylidine	87-62-7

CAS-No. = Chemical Abstracts Service registry number