



TEST REPORT

NO.: SST15100603101

Date: Oct 09, 2015

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Applicant:

Address:

Report on the submitted sample said to be

Sample name: PORTFOLIO

Style/ Model No. : P772.101, P772.102, P772.105

P/O No./ Lot No. : N/A

Color/ Material : N/A

Test Request Age : N/A

Manufactory : N/A

Buyer : N/A

Country of Origin : N/A

Country of Export : N/A

Sample received date: Oct 06,2015

Sample test period: From Oct 06,2015 to Oct 09,2015

SUMMARY OF TEST RESULT(S)

Testing Item	Conclusion	Remark
24 Aromatic Amines Content from Azo Colorants – Client's Specification requirement	-	See next Pages
The Polycyclic Aromatic Hydrocarbons (PAHs) Content requirement of German Product Safety Commission GS Specification AfPS GS 2014:01 PAK, "Testing and validation of PAHs in products in the course of GS-Mark Certification".	-	See next Pages
The total Cadmium content by client's request	-	See next Pages

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signatories:

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Lab Manager



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Results:

24 Aromatic Amines Content from Azo Colorants - Client's Specification requirement

Test Method: European Standard EN 14362-1: 2012

Code	Amines Substances	CAS No.	Unit	Client's Limit	Result	
					001	002
1	4-Aminobiphenyl	92-67-1	mg/kg	/	ND	ND
2	Benzidine	92-87-5	mg/kg	/	ND	ND
3	4-Chloro-o-toluidine	95-69-2	mg/kg	/	ND	ND
4	2-Naphthylamine	91-59-8	mg/kg	/	ND	ND
5	o-Aminoazotoluene	97-56-3	mg/kg	/	ND*	ND*
6	5-nitro-o-toluidine	99-55-8	mg/kg	/	ND*	ND*
7	4-Chloroaniline	106-47-8	mg/kg	/	ND	ND
8	4-Methoxy-m-phenylenediamine	615-05-4	mg/kg	/	ND	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	/	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	/	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	/	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	/	ND	ND
13	4,4'-Diamino-3,3'-dimethyldiphenyl methane	838-88-0	mg/kg	/	ND	ND
14	2-Methoxy-5-methylaniline(p-cresidine)	120-71-8	mg/kg	/	ND	ND
15	4,4'-Methylenebis(2-chloroaniline)	101-14-4	mg/kg	/	ND	ND
16	4,4'-Oxydianiline	101-80-4	mg/kg	/	ND	ND
17	4,4'-Thiodianiline	139-65-1	mg/kg	/	ND	ND
18	o-Toluidine	95-53-4	mg/kg	/	ND	ND
19	2,4-Diaminotoluene	95-80-7	mg/kg	/	ND	ND
20	2,4,5-Trimethylaniline	137-17-7	mg/kg	/	ND	ND
21	2-Methoxyaniline	90-04-0	mg/kg	/	ND	ND
22	4-Aminoazobenzene	60-09-3	mg/kg	/	ND**	ND**
23	2,4-Xylidine	95-68-1	mg/kg	/	ND	ND
24	2,6-Xylidine	87-62-7	mg/kg	/	ND	ND



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Results:

24 Aromatic Amines Content from Azo Colorants - Client's Specification requirement

Test Method: European Standard EN 14362-1: 2012

Code	Amines Substances	CAS No.	Unit	Client's Limit	Result	
					003	004
1	4-Aminobiphenyl	92-67-1	mg/kg	/	ND	ND
2	Benzidine	92-87-5	mg/kg	/	ND	ND
3	4-Chloro-o-toluidine	95-69-2	mg/kg	/	ND	ND
4	2-Naphthylamine	91-59-8	mg/kg	/	ND	ND
5	o-Aminoazotoluene	97-56-3	mg/kg	/	ND*	ND*
6	5-nitro-o-toluidine	99-55-8	mg/kg	/	ND*	ND*
7	4-Chloroaniline	106-47-8	mg/kg	/	ND	ND
8	4-Methoxy-m-phenylenediamine	615-05-4	mg/kg	/	ND	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	/	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	/	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	/	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	/	ND	ND
13	4,4'-Diamino-3,3'-dimethyldiphenyl methane	838-88-0	mg/kg	/	ND	ND
14	2-Methoxy-5-methylaniline(p-cresidine)	120-71-8	mg/kg	/	ND	ND
15	4,4'-Methylenebis(2-chloroaniline)	101-14-4	mg/kg	/	ND	ND
16	4,4'-Oxydianiline	101-80-4	mg/kg	/	ND	ND
17	4,4'-Thiodianiline	139-65-1	mg/kg	/	ND	ND
18	o-Toluidine	95-53-4	mg/kg	/	ND	ND
19	2,4-Diaminotoluene	95-80-7	mg/kg	/	ND	ND
20	2,4,5-Trimethylaniline	137-17-7	mg/kg	/	ND	ND
21	2-Methoxyaniline	90-04-0	mg/kg	/	ND	ND
22	4-Aminoazobenzene	60-09-3	mg/kg	/	ND**	ND**
23	2,4-Xylidine	95-68-1	mg/kg	/	ND	ND
24	2,6-Xylidine	87-62-7	mg/kg	/	ND	ND

Note:

-* =The CAS No. 97-56-3(No.5) and 99-55-8 (No.6) are further reduced to CAS No. 95-53-4(No.18) and 95-80-7(No.19);

-**The EN14362-1:2012 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, if detected aniline or 1,4-phenylenediamine, the test method of EN14362-3:2012 was employed to verify the presence of 4-aminoazobenzene.

- mg /kg = milligram(s) per kilogram

- ND= Not Detected (<DL)

- Detection Limit= 5mg/kg



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Results:

Polycyclic Aromatic Hydrocarbons (PAHs) Content – German Product Safety Commission GS Specification AfPS GS 2014:01 PAK

Test Method: With reference to test method mentioned in German AfPS GS 2014:01 PAK

Maximum Allowable Limit :	See Appendix.
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Parameter	CAS-No.	Unit	Result		
Test Item(s)	-	-	005	-	-
Type	-	-	-	-	-
Benzo (a) pyrene	50-32-8	mg/kg	ND	-	-
Benzo (e) pyrene	192-97-2	mg/kg	ND	-	-
Benzo (a) anthracene	56-55-3	mg/kg	ND	-	-
Benzo (b) fluoranthene	205-99-2	mg/kg	ND	-	-
Benzo (j) fluoranthene	205-82-3	mg/kg	ND	-	-
Benzo (k) fluoranthene	207-08-9	mg/kg	ND	-	-
Chrysene	218-01-9	mg/kg	ND	-	-
Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	-	-
Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	-	-
Indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	ND	-	-
Acenaphthylene	208-96-8	mg/kg	ND	-	-
Acenaphthene	83-32-9	mg/kg	ND	-	-
Fluorene	86-73-7	mg/kg	ND	-	-
Phenanthrene	85-01-8	mg/kg	ND	-	-
Pyrene	129-00-0	mg/kg	ND	-	-
Anthracene	120-12-7	mg/kg	ND	-	-
Fluoranthene	206-44-0	mg/kg	ND	-	-
Naphthalene	91-20-3	mg/kg	ND	-	-
Sum of all listed PAHS	-	mg/kg	ND	-	-

Note / key:

ND = Not detected(<DL)

">" = More than

Conc. = Concentration

mg/kg = milligram(s) per kilogram

"<" = Less than

Detection Limit (mg/kg): Each PAHs: 0.2;

Remark:

Plasticized and rubberized prints, coatings and plastic materials of product are applicable to be tested.

^[a] Denotes as this (these) limit(s) applies to product(s) with GS-Mark dated on or after July 01, 2015.



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Appendix

Type (See Comment for the List of Types)	I	IIa	IIb	IIIa	IIIb
Test Parameter(s)	Limit ^[a] (mg/kg)				
Each of Benzo (a) pyrene, Benzo (e) pyrene, Benzo (a) anthracene, Benzo (b) fluoranthene, Benzo (j) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene Indeno (1,2,3-cd) pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Naphthalene	< 1	< 2	< 2	< 10	< 10
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene Fluoranthene (Sum of above listed PAHs)	< 1	< 5	< 10	< 20	< 50
Sum of all listed PAHs	< 1	< 5	< 10	< 20	< 50

List of Types [Categories defined in German AfPS GS 2014:01 PAK] :		
Category	Category Description(s)	Type
1	Category 1: Materials intended for mouth contact or materials in toys with intended long-term skin contact for more than 30 seconds	I
2	Category 2: Materials which are not covered in Category 1 with foreseeable contact to skin longer than 30 seconds (Long-term skin contact) or repeated short-term skin contact	IIa ^[a] or IIb ^[b]
3	Category 3: Materials which are not covered in Category 1 or Category 2 with foreseeable skin contact up to 30 seconds (Short-term skin contact)	IIIa ^[a] or IIIb ^[b]
^[a] denotes as toys according to European Parliament and Council Directive 2009/48/EC ^[b] denotes as other products according to German ProdSG		



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Results:

Total Cadmium Content by client's request

Test Method: Acid digestion, Analysis was performed by ICP-OES.

Client's Limit :	/		
Test Item(s)	Result	Unit	Conclusion
	Total Cadmium (Cd)		
005	ND	mg/kg	-

Note :

ND = Not detected(<DL)
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg) : 5

Specimen Description:

- 001: Black fabric (Leica cloth)
- 002: Black fabric(150D)
- 003: Grey fabrics(150D)
- 004: Blue fabrics(150D)
- 005: Semi transparent plastic(TPU)



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Photograph of Sample



*** End of Report ***

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