



## TEST REPOR

Page 1 of 7

**REPORT NUMBER :** TURA110081714  
**APPLICANT NAME** **SANEM MATBAACILIK VE ULUSLARARASI TAŞ A.Ş.**  
Başkent Organize Sanayi Bölgesi 19 C No: 85 Maliköy Temelli Ankara  
FAX NO : 0312 640 12 32  
**ADDRESS** **Attention : Abdurrahman Baştaş (abdurrahman@sanem.com.tr)**  
**SAMPLE DESCRIPTION :** One sample of White cord  
**BUYER :** TÜKİD  
**DATE IN :** 17 August, 2011 (13:54)  
**DATE OUT :** 25 August, 2011

**PHOTO OF PRODUCT TESTED :**



Part No	Tested Part
1	WHITE CORD

Zeynep Akın  
Assistant Chemical Laboratory Manager

Neslihan Sözer  
Chemical Laboratory Manager



2111

**Intertek Test Hizmetleri A.S.**

Merkez Mahallesi Sanayi Cad. No: 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY

Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55

e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com



110081714

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Azo Dyes	64 LFBG B 82.02.2	P	-	30 ppm	2004/21/EC	Part 1
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP : 1000 ppm	(27893) Notification On Market Supervision And Controls Regarding Hazardous Chemical Contents Of Some End- User Products	Part 1
Carcinogenic and Disperse Dyes	DIN 54231	P	-	Not Detected	2002/371/EC	Part 1
Heavy Metals	ISO 105 E04 by ICP OES	P	-	As: 1,0 ppm Pb: 1,0 ppm Cd: 0,1 ppm Cr: 2,0 ppm Cr(VI):Under detection limit Co:4,0 ppm Cu:50,0 ppm Ni:4,0 ppm Hg:0,02 ppm Sb:30 ppm	2002/371/EC	Part 1

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

The test results relate only to the items tested. The report shall not be reproduced except in full, without the written approval of the laboratory. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (\*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



2111

**Intertek Test Hizmetleri A.S.**

**Merkez Mahallesi Sanayi Cad. No. 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY**

**Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55**

**e-mail : labtest.turkey@intertek.com**

**www.intertek-labtest-tur.com**

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

**Azo Dyestuff**

64 LFGB 82.02.2:2004

Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis

**Part 1**

White cord (Textile)

**PASS** 30 ppm

**INTERPRETATION OF AZO-DYES TEST RESULTS:**

AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.

**FORBIDDEN AMINE**

4-AMINOBIIPHENYL  
 BENZIDINE  
 CHLORO-O-4-CHLOR-O-TOLUIDINE  
 2-NAPHTHYLAMINE  
 \*O-AMINOAZOTOLUENE  
 \*2-AMINO-4-NITROTOLUENE  
 P-CHLOROANILINE  
 2,4-DIAMINOANISOLE  
 4,4'-DIAMINOBIIPHENYLMETHANE  
 3,3'-DICHLOROBENZIDINE  
 3,3'-DIMETHOXYBENZIDINE  
 3,3'-DIMETHYLBENZIDINE  
 3,3'-DIMETHYL-4,4' DIAMINOBIIPHENYLMETHANE  
 P-CRESIDINE  
 4,4'-METHYLENE-BIS-(2 CHLOROANILINE)  
 4,4'-OXYDIANILINE  
 4,4'-THIODIANILINE  
 O-TOLUIDINE  
 2,4-TOLUYLENDIAMINE  
 2,4,5-TRIMETHYLANILINE  
 O-ANISIDINE  
 \*\*P-AMINOAZOBENZENE

**CAS NO**

92-67-1  
 92-87-5  
 95-69-2  
 91-59-8  
 97-56-3  
 99-55-8  
 106-47-8  
 615-05-4  
 101-77-9  
 91-94-1  
 119-90-4  
 119-93-7  
 838-88-0  
 120-71-8  
 101-14-4  
 101-80-4  
 139-65-1  
 95-53-4  
 95-80-7  
 137-17-7  
 90-04-0  
 60-09-3

**NOTE:\*** The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.

\*\*Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

Remark

< = Less Than  
 ppm(part per million)= mg/ kg  
 Detection Limit = 5 ppm  
 Total Uncertainty = ±10%



2111

**Intertek Test Hizmetleri A.S.**

Merkez Mahallesi Sanayi Cad. No. 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY

Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55

e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

**TOTAL PHTHALATE CONTENT**

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 1	RESULT (%, w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%, w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

(Total Uncertainty=±5 %)



2111

**Intertek Test Hizmetleri A.S.**

Merkez Mahallesi Sanayi Cad. No. 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY

Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55

e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

**Allergenic Disperse Dyestuff**

By High Performance Liquid Chromatography (LC-MS-MS) Analysis Refer DIN 54231 : 2008

Part 1	<u>C.I Generic Name</u>	<u>Result</u>	
	C.I. Disperse Blue 1:	<b>Not Detected</b>	<i>Not Detected</i>
	C.I. Disperse Blue 3:	<b>Not Detected</b>	
	C.I. Disperse Blue 7:	<b>Not Detected</b>	
	C.I. Disperse Blue 26:	<b>Not Detected</b>	
	C.I. Disperse Blue 35:	<b>Not Detected</b>	
	C.I. Disperse Blue 102:	<b>Not Detected</b>	
	C.I. Disperse Blue 106:	<b>Not Detected</b>	
	C.I. Disperse Blue 124:	<b>Not Detected</b>	
	C.I. Disperse Brown 1:	<b>Not Detected</b>	
	C.I. Disperse Orange 1:	<b>Not Detected</b>	
	C.I. Disperse Orange 3:	<b>Not Detected</b>	
	C.I. Disperse Orange 37/76:	<b>Not Detected</b>	
	C.I. Disperse Orange 149:	<b>Not Detected</b>	
	C.I. Disperse Red 1:	<b>Not Detected</b>	
	C.I. Disperse Red 11:	<b>Not Detected</b>	
	C.I. Disperse Red 17:	<b>Not Detected</b>	
	C.I. Disperse Yellow 1:	<b>Not Detected</b>	
	C.I. Disperse Yellow 3:	<b>Not Detected</b>	
	C.I. Disperse Yellow 9:	<b>Not Detected</b>	
	C.I. Disperse Yellow 23:	<b>Not Detected</b>	
	C.I. Disperse Yellow 39:	<b>Not Detected</b>	
	C.I. Disperse Yellow 49:	<b>Not Detected</b>	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

(Total uncertainty=± 9%)



2111

**Intertek Test Hizmetleri A.S.**

Merkez Mahallesi Sanayi Cad. No. 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY

Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55

e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

**Carcinogenous Dyestuff**

By High Performance Liquid Chromatography ( (LC-MS-MS)Analysis Refer DIN 54231 : 2008

Part 1	<u>COMPOUND</u>	<u>RESULT (ppm)</u>	
	ACID RED 26	Not Detected	<i>Not Detected</i>
	BASIC RED 9	Not Detected	
	BASIC VIOLET 14	Not Detected	
	DIRECT BLACK 38	Not Detected	
	DIRECT BLUE 6	Not Detected	
	DIRECT RED 28	Not Detected	
	DISPERSE BLUE 1	Not Detected	
	DISPERSE ORANGE 11	Not Detected	
	DISPERSE YELLOW 3	Not Detected	

ppm (part per million)	=mg / kg
Detection Limit	=7.5 ppm
<	=Less Than
ND	=Not Detected

(Total uncertainty= $\pm$  8 %)

Code	Test Method	Result	Requirements
------	-------------	--------	--------------

**(\*)Heavy Metal Analysis**

ISO 105 E04

Extractable with artificial perspiration solution and determination by ICP-OES

**Part 1**

Antimony	(Sb)	<2 ppm	30 ppm
Arsenic	(As)	<0.2 ppm	1 ppm
Cadmium	(Cd)	<0.025 ppm	0,1 ppm
Chromium	(Cr)	<0.25 ppm	2 ppm
Chromium + 6	(Cr + 6)	Under Detection limit	Under Detection Limit
Cobalt	(Co)	< 0.25 ppm	4 ppm
Copper	(Cu)	< 2 ppm	50 ppm
Lead	(Pb)	<0.2 ppm	1 ppm
Mercury	(Hg)	<0.02 ppm	0,02 ppm
Nickel	(Ni)	<0.25 ppm	4 ppm

ppm :part per million (mg/kg)

< =Less Than

## END OF TEST REPORT ##



2111

**Intertek Test Hizmetleri A.S.**

Merkez Mahallesi Sanayi Cad. No. 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY

Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55

e-mail : labtest.turkey@intertek.com

www.intertek-labtest-tur.com