

## Test Report

Page 1 of 3

**Customer:** Rutland Screen Printing Products  
Rutland Europe Ltd. 26-28 Eldon Way  
TN12 6BE Paddock Wood. Kent  
United Kingdom

**Contact Person:** Tony Chapman  
**Customer Reference:** EW9969

**Report No.:** (25411)187-52275  
**Report Version:** 1

**Date of Reception:** 23.06.2011

**Report Date:** 06.07.2011  
**Date of Order:** 18.05.2011  
**Sampled By:** client

### Sample Information

**Requirements:** Tested according to "-" requirements  
**Sample Description:** HS-A Water Base Ink  
**Performance Date:** 27.06.2011 - 06.07.2011

**No. of workdays:** 8

### Submitted Samples

Nr. 1



### Summary of test results

Tested according to "-" requirements

Tests required	Conclusion	Remark
Formaldehyde	Pass	
Heavy metals, total content	Pass	
Phthalates	Pass	
PVC test	Pass	
Tinorganic compounds	Pass	

## Tested Samples

Article No:	Sample ID:	Sample description:	
SP/SU 2012	52275-01	1. White rubber ink	

## Test Results

Tested according to "-" requirements

Sample description:		1. White rubber ink	Lab Reference No:		52275-01
Test Method / Standard:		Formaldehyde, free in textiles: ISO 14184-1, reporting limit: 5 mg/kg			
Parameter		Limit	Result	Rating	
Formaldehyde (toddler/infant/baby/<160mm)		≤ 20 mg/kg	12 mg/kg	Pass	
Formaldehyde		≤ 75 mg/kg	12 mg/kg	Pass	
Test Method / Standard:		Heavy metals, total content: Nike In House Method: Total metal content by microwave digestion and ICP or AAS analysis, reporting limits: Cd 25 mg/kg, Pb 50 mg/kg, Hg 0.1 mg/kg, Cr (total) 3 mg/kg, Tin 0.1 mg/kg			
Parameter		Limit	Result	Rating	
Cadmium (Cd)		≤ 50 mg/kg	<25 mg/kg	Pass	
Chromium (Cr)			<3 mg/kg	No Specification	
Lead (Pb)		≤ 90 mg/kg	<50 mg/kg	Pass	
Mercury (Hg)		≤ 1 mg/kg	<0.1 mg/kg	Pass	
Tin (Sn)			0.14 mg/kg	No Specification	
Test Method / Standard:		7 listed Phthalates: Nike In House Method: Determination of defined Orthophthalatic Esters in Synthetic Fibers and Thermoplastics by LC-DAD-MS or GC-MS, confirmation of failure by fragmentation HPLC-MS, reporting limit: 50 mg/kg			
Parameter		Limit	Result	Rating	
Di(2-ethylhexyl)phthalate (DEHP)			<50 mg/kg	No Specification	
Dibutylphthalate (DBP)			<50 mg/kg	No Specification	
Butylbenzylphthalate (BBP)			<50 mg/kg	No Specification	
Di-iso-nonylphthalate (DINP)			<50 mg/kg	No Specification	
Di-n-octylphthalate (DNOP)			<50 mg/kg	No Specification	
Di-iso-decylphthalate (DIDP)			<50 mg/kg	No Specification	
Di-iso-butylphthalate (DIBP)			<50 mg/kg	No Specification	
7 listed Phthalates (adults)		≤ 1000 mg/kg	not detected	Pass	
7 listed Phthalates (toddler/infant/baby/<160mm)		≤ 500 mg/kg	not detected	Pass	
Test Method / Standard:		Tinorganic compounds: Nike inhouse method: Based on DIN 38407-13 and ISO 17353, detection limit: 0.1 mg/kg			
Parameter		Limit	Result	Rating	
Tributyltin (TBT)			<0.1 mg/kg	No Specification	
Triphenyltin (TPhT)			<0.1 mg/kg	No Specification	
Sum of TBT and TPhT		≤ 0.5 mg/kg	<0.1 mg/kg	Pass	
Dibutyltin (DBT)			<0.1 mg/kg	No Specification	
Dibutyltin (DBT) (toddler/infant/baby/<160mm)		≤ 1.0 mg/kg	<0.1 mg/kg	Pass	
Monobutyltin (MBT)			<0.1 mg/kg	No Specification	
Monooctyltin (MOT)			<0.1 mg/kg	No Specification	
Dioctyltin (DOT)			<0.1 mg/kg	No Specification	
Tetrabutyltin (TeBT)			<0.1 mg/kg	No Specification	
Test Method / Standard:		PVC test: Beilstein's test: Burning test for the presence of chlorine Infrared Analysis: Spectroscopy (IR) with or without solvent extraction (Positive results for both tests indicate PVC)			
Parameter		Limit	Result	Rating	
PVC test		no PVC detected	no PVC detected	Pass	

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The testing of mixed samples is carried at the customer's explicit request and may imply a deviation from the testing standard. Please note the following: results for mixed samples that are below the limit may exceed the limit if the samples contained in the mixed sample are tested individually. In these cases separated testing of the samples is recommended.

**Performance Date:** 27.06.2011 - 06.07.2011

**Total Run Time:** 8



Dr. J. Ruhkamp Labmanager

**No results printed beyond this point in the report**

### Detailed Method Descriptions

<b>Analysis / Test:</b>	Heavy metals, total content
DIN EN 14602, total metal content, microwave digestion with salpetric acid/hydrochloric acid, determination using ICP, reporting limit: 1 mg/kg, except Mercury and Tin: 0.1 mg/kg	

<b>Analysis / Test:</b>	Tinorganic compounds
Nike inhouse method: Based on DIN 38407-13 and ISO 17353, Extraction & derivatization, followed by GC-MS analysis, detection limit: 0.1 mg/kg	

### Parameters & CAS No.

<b>Formaldehyde, free in textiles</b>	<b>(CAS No.)</b>
Formaldehyde(50-00-0)	

<b>Heavy metals, total content</b>	<b>(CAS No.)</b>
Lead (Pb)(7439-92-1) Mercury (Hg)(7439-97-6) Tin (Sn)(7440-31-5) Cadmium (Cd)(7440-43-9) Chromium (Cr)(7440-47-3)	

<b>7 listed Phthalates</b>	<b>(CAS No.)</b>
Di(2-ethylhexyl)phthalate (DEHP)(117-81-7) Di-n-octylphthalate (DNOP)(117-84-0) Di-iso-decylphthalate (DIDP)(26761-40-0) Di-iso-nonylphthalate (DINP)(28553-12-0) Di-iso-butylphthalate (DIBP)(84-69-5) Dibutylphthalate (DBP)(84-74-2) Butylbenzylphthalate (BBP)(85-68-7)	

<b>Tinorganic compounds</b>	<b>(CAS No.)</b>
Dibutyltin (DBT) (toddler/infant/baby/<160mm)(14488-53-0) Tetrabutyltin (TeBT)(1461-25-2) Tributyltin (TBT)(36643-28-4) Triphenyltin (TPhT)(668-34-8) Monobutyltin (MBT)(78763-54-9) Monooctyltin (MOT)(nonexistent)	