

**Test Report**

No. KE/2014/A3388

Date :Nov 3, 2014

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TAIXIANG RUBBER (SHEN ZHEN) CO., LTD.  
LISONG LANG INDUSTRIAL AREA GONG MING TOWN,SHENZHEN CITY,CHINA

The following sample(s) was/were submitted and identified by/on behalf of the client as :

**Report on the submitted sample said to be:**

Sample Description : Active Granule® Zno  
Amount of Sample : One  
Buyer's Name / Division : Adidas Accessories & Gear  
Summary of Test Result : **Pass**  
Failure Test Items : ---  
Age Group : All Ages  
Material Name / Code : Active Granule® Zno  
Color Name / Code : White  
Supplier Name : Taixiang Rubber (Shen Zhen) Co., Ltd.  
Country of Origin : China  
Country of Destination : ---  
Material Component : Active Granule® Zno  
Sample Classification : Rubber materials (201)  
Test Required Key Code No. : Key code 201 under Adidas A-01 Test Standard 2014  
Report Type : Full Test (FT)  
Full Test Report No. : ---  
(Only for SC\*/NT\*/IT\*/ST\*) : ---  
P.O. No. : ---  
Additional Information : ---  
Sample Received Date : Oct 29, 2014  
Sample Tested Date : Oct 29, 2014~Nov 3, 2014  
Sample Submitted by : Taixiang Rubber (Shen Zhen) Co., Ltd.

Note: (SC\*)(NT\*)(IT\*)(ST\*) mark the full test reports No. ; (RT) this application just for T1 shoes factory; (SI) it is for supplier only and will not acceptable for adidas.

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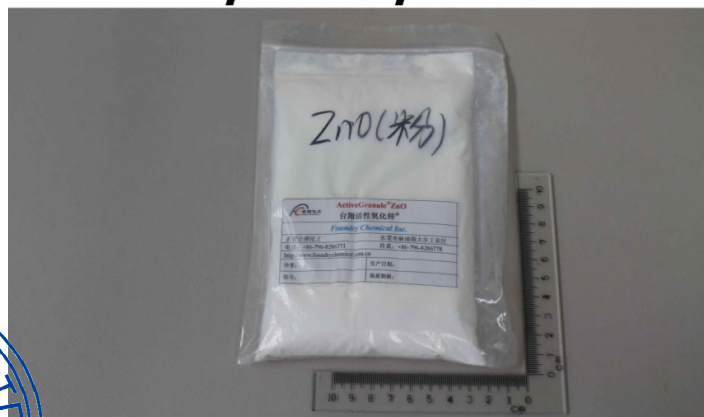
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### Summary of Test Result: (Detail test results on next page)

Test Parameter	Test Method	Conclusion (Pass/Fail)
Extractable Heavy Metals	Extraction in acidic perspiration solution: DIN EN ISO 105 E04:2013 in acid solution, Analysis by ICP-OES: DIN EN ISO 12846:2012/ DIN EN ISO 11885:2009	Pass
Total Cadmium	Polymers: Pre-treatment: EN 1122:2002 Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Total Lead	Non-metal parts: Pre-treatment: Microwave digestion with H <sub>2</sub> O <sub>2</sub> /HNO <sub>3</sub> Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Organotin Compounds	ISO/TS 16179:2012	Pass
Σ Phthalates	dichloromethane with ASE Measurement with GC-MS	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylate (NPEO), Octylphenol ethoxylate (OPEO)	NP,OP: Solvent Extraction, Analysis by LC-MS NPEO,OPEO: Textiles: Draft DIN EN ISO 18254 (2014)	Pass
Regulated Polycyclic Aromatic Hydrocarbons (PAHs) of high concern	ZEK 01.4-08	Pass
Σ of Polycyclic Aromatic Hydrocarbons (PAHs)	ZEK 01.4-08	Pass

### Sample Photo

## KE/2014/A3388



  
**Jerry Tung / Asst. Manager**  
**Signed for and on behalf of**  
**SGS Taiwan Limited**

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### Component List

Component No.	Component	Material
1	White Active Granule <sup>®</sup> Zn	Active Granule <sup>®</sup> Zn

### Detail Test Results:

#### Extractable Heavy Metals

Test Method: Extraction in acidic perspiration solution - DIN EN ISO 105-E04:2013.  
Analysis by ICP-OES / ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012.

	<u>Result</u>
	<u>1</u>
Cadmium	n.d.
Chromium	n.d.
Lead	n.d.
Mercury	n.d.
<b>Conclusion</b>	<b>PASS</b>

Note: n.d. = not detected  
\* = Exceeds the TLV

Client's Requirement	<u>Infants (ppm)</u>	<u>Adults (ppm)</u>	<u>Detection Limit (ppm)</u>
<b>Cadmium</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<b>Chromium</b>	<b>1.0</b>	<b>2.0</b>	<b>1.0</b>
<b>Lead</b>	<b>0.2</b>	<b>1.0</b>	<b>0.2</b>
<b>Mercury</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>

#### Total Cadmium

Test Method: Polymers: Acid digestion – EN 1122:2002  
Analysis by ICP-OES or AAS - DIN EN ISO 11885:2009.

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Total Cadmium	--	5.95 ppm
<b>Conclusion</b>		<b>PASS</b>

Note: n.d. = not detected  
\* = Exceeds the TLV  
Detection Limit = 5 ppm

**Client's Requirement 40 ppm**

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### Total Lead

Test Method: Non metal: Pretreatment by Microwave digestion with H<sub>2</sub>O<sub>2</sub>/HNO<sub>3</sub>  
Analysis by ICP-OES: DIN EN ISO 11885: 2009

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Total Lead	--	6.13 ppm
<b>Conclusion</b>		<b>PASS</b>

Note: n.d. = not detected  
\* = Exceeds the TLV  
Detection Limit = 5 ppm

**Client's Requirement 40 ppm**

### Organotin Compounds

Test Method: ISO/TS 16179:2012.

<u>Organotins</u>	<u>Result</u>
	<u>1</u>
Tributyltin (TBT)	n.d.
Triphenyltin (TPhT)	n.d.
Dibutyltin (DBT)	n.d.
Diocetyl tin (DOT)	n.d.
<b>Conclusion</b>	<b>PASS</b>

Note: n.d. = not detected  
\* = Exceed the TLV  
Detection Limit = 0.05 ppm (for individual compound)

#### **Client's Requirement:**

**TBT Not Detected**  
**DBT 1 ppm**  
**TPhT 0.5 ppm (Infants) / 1 ppm (Adults)**  
**DOT 1 ppm**

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### Phthalates

Test Method: Dichloromethane with ASE. Analysis was performed by GC/MS

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Diisononylphthalate (DINP)	28553-12-0	n.d.
Di- <i>n</i> -octylphthalate (DNOP)	117-84-0	n.d.
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Diisodecylphthalate (DIDP)	26761-40-0	n.d.
Butylbenzylphthalate (BBP)	85-68-7	n.d.
Dibutylphthalate (DBP)	84-74-2	n.d.
Diisobutylphthalate (DIBP)	84-69-5	n.d.
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	n.d.
Di-C711-branched alkylphthalates (DHNUP)	68515-42-4	n.d.
Di- <i>n</i> -hexylphthalate (DHP)	84-75-3	n.d.
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	n.d.
Dipentylphthalate (DPP)	131-18-0	n.d.
Total		n.d.
<b>Conclusion</b>		<b>PASS</b>

Note: n.d. = not detected  
 \* = Exceeds the TLV  
 Detection Limit:  
 DBP, BBP, DEHP, DIBP, DHP, DMEP, DNOP, DPP: 30 ppm (for individual compound).  
 DINP, DIDP, DHNUP, DIHP: 100 ppm (for individual compound)

**Client's Requirement 500 ppm (Total)**

### Σ of NP,OP, NPEO and OPEO

Test Method:  
 NP, OP: Solvent Extraction. Analysis was performed by LC-MS.  
 NPEO, OPEO: Textile: Draft DIN EN ISO 18254:2014. Leather: Draft DIN EN ISO 18218-1:2012.

	<u>Result</u>
	<u>1</u>
Nonylphenol (NP)	n.d.
Octylphenol (OP)	n.d.
Nonylphenol ethoxylates (NPEO)	n.d.
Octylphenol ethoxylates (OPEO)	n.d.
Σ of NP,OP, NPEO and OPEO	n.d.
<b>Conclusion</b>	<b>PASS</b>

Note: n.d. = not detected  
 \* = Exceeds the TLV  
 Detection Limit = 3 ppm  
**Client's Requirement 250 ppm (sum of NP, OP, NPEO and OPEO)**  
**10 ppm (NP)**  
**10 ppm (OP)**

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## Polycyclic Aromatic Hydrocarbons (PAHs) and Regulated PAHs of High Concern

Test Method: ZEK 01.4-08. Analysis was performed by GC-MS.

	<u>CAS No.</u>	<u>Result</u>
		<u>1</u>
Naphthalene (NAP)	91-20-3	n.d.
Acenaphthylene (ANY)	208-96-8	n.d.
Acenaphthene (ANA)	83-32-9	n.d.
Fluorene (FLU)	86-73-7	n.d.
Phenanthrene (PHE)	85-01-8	n.d.
Anthracene (ANT)	120-12-7	n.d.
Fluoranthene (FLT)	206-44-0	n.d.
Pyrene (PYR)	129-00-0	n.d.
Benzo(j)fluoranthene (BjF)	205-82-3	n.d.
Benzo(a)anthracene (BaA)	56-55-3	n.d.
Chrysene (CHR)	218-01-9	n.d.
Benzo(b)fluoranthene (BbF)	205-99-2	n.d.
Benzo(k)fluoranthene (BkF)	207-08-9	n.d.
Benzo(a)pyrene (BaP)	50-32-8	n.d.
Indeno(1,2,3-cd)pyrene (IPY)	193-39-5	n.d.
Dibenzo(a,h)anthracene (DBA)	53-70-3	n.d.
Benzo(g,h,i)perylene (BPE)	191-24-2	n.d.
Benzo(e)pyrene (BeP)	192-97-2	n.d.
Total		n.d.
<b>Conclusion</b>		<b>PASS</b>

Note: n.d. = not detected  
 \* = Exceeds the TLV  
 Detection Limit = 0.2 ppm (for individual compound)

**Client's Requirement:**

<b>Σ of PAHs</b>	<b>10 ppm (Total)</b>
<b>Benzo(a)anthracene (BaA)</b>	<b>1 ppm</b>
<b>Benzo(a)pyrene (BaP)</b>	<b>1 ppm</b>
<b>Benzo(b)fluoranthene (BbF)</b>	<b>1 ppm</b>
<b>Benzo(e)pyrene (BeP)</b>	<b>1 ppm</b>
<b>Benzo(j)fluoranthene (BjF)</b>	<b>1 ppm</b>
<b>Benzo(k)fluoranthene (BkF)</b>	<b>1 ppm</b>
<b>Chrysene (CHR)</b>	<b>1 ppm</b>
<b>Dibenzo(a,h)anthracene (DBA)</b>	<b>1 ppm</b>

\*\*\* End of Report \*\*\*

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