

Test Report

Number: SHAH0157294102

Applicant: HANGZHOU TIANYA INDUSTRY CO., LTD
RM 1004, B1, IBC OF EASTERN HANGZHOU, NO.600 JINSHA RD,
QIANTANG DISTRICT, HANGZHOU, 310018, ZHEJIANG CHINA
Attn: ZENG PINGJIA

Date: May 24, 2023

Sample Description:

Two (2) submitted samples said to be:

Item Name : **(1) Black Powder (ACID Black 172),**
(2) Black Fabric (ACID Black 172, 2%).

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued.

Authorized By:

For Intertek Testing Services Ltd., Shanghai



Rainbow Zhang
Deputy General Manager



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Tests Conducted

1 Detection of Amines Derived from Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) and High Performance Liquid Chromatographic (HPLC) analysis.

Test Method: EN ISO 14362-1: 2017/EN ISO 14362-3: 2017 for p-Aminoazobenzene

	<u>Forbidden</u>	<u>CAS No.</u>	<u>Tested Result (ppm)</u> <u>Method T</u> <u>Tested Components (1)</u>
1.	4-Aminodiphenyl	92-67-1	N
2.	Benzidine	92-87-5	N
3.	4-Chloro-o-Toluidine	95-69-2	N
4.	2-Naphthylamine	91-59-8	N
5.	o-Aminoazotoluene	97-56-3	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N
7.	p-Chloroaniline	106-47-8	N
8.	2,4-Diaminoanisole	615-05-4	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N
10.	3,3'-Dichlorobenzidine	91-94-1	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N
12.	3,3'-Dimethylbenzidine	119-93-7	N
13.	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	N
14.	p-Cresidine	120-71-8	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N
16.	4,4'-Oxydianiline	101-80-4	N
17.	4,4'-Thiodianiline	139-65-1	N
18.	o-Toluidine	95-53-4	N
19.	2,4-Toluylenediamine	95-80-7	N
20.	2,4,5-Trimethylaniline	137-17-7	N
21.	o-Anisidine	90-04-0	N
22.	p-Aminoazobenzene	60-09-3	N
23.	2,4-Xylidine	95-68-1	N
24.	2,6-Xylidine	87-62-7	N
25.	Aniline	62-53-3	N
26.	p-Phenylene diamine	106-50-3	N
27.	4-Aminotoluene	106-49-0	N
28.	m-Toluidine	108-44-1	N

Remark: N = Not Detected

Detection Limit = 10 ppm

ppm = parts per million = mg/kg

Method T: Direct buffer extraction as per EN ISO 14362-1: 2017 Section 10.2

To be continued.



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2 Extractable Heavy Metals(Eco-certification)

With reference to DIN 54233-3, by Inductively Coupled Argon Plasma Mass (ICP-MS) and UV-Visible Spectrophotometry analysis.

<u>Elements</u>	<u>Tested Result (ppm)</u> <u>Tested Components (2)</u>	<u>Detection Limit(ppm)</u>	<u>Requirement (ppm)</u> <u>Class I</u>
Sol. Antimony (Sb)	ND	1.0	30
Sol. Arsenic (As)	ND	0.1	0.2
Sol. Lead (Pb)	ND	0.1	0.2
Sol. Cadmium (Cd)	ND	0.03	0.1
Sol. Mercury (Hg)	ND	0.01	0.02
Sol. Copper (Cu)	ND	1.0	25.0
Sol. Chromium (Cr-Total)	ND	0.5	1.0
Sol. Chromium VI (Cr(VI))	ND	0.5	ND
Sol. Cobalt (Co)	ND	0.3	1.0
Sol. Nickel (Ni)	ND	0.3	1.0

Remark: Sol. = Soluble
ND = Not Detected
ppm = Parts per million = mg/kg

Tested Component:
(1) Black Powder (ACID Black 172),
(2) Black Fabric (ACID Black 172, 2%).

Date Sample Received: May 19, 2023
Testing Period: May 19, 2023 to May 24, 2023

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End of report.

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shanghai Ltd.

