

Applicant: WELLMAX PRODUCTS CO., LTD  
8F-5, NO.247, YIXIN ST., EAST DIST.,  
TAICHUNG CITY 401, TAIWAN (R.O.C.)

Date: Mar 11, 2025

Attn: JAY

## Sample Description:

One (1) roll of submitted sample said to be WELLMAX V NY-07 ANTIPENETRATION MID SOLE in White.

Color	: --
Pattern Name	: --
Material Type	: --
Material Code	: --
Stock No.	: --
PO No.	: --
Brand Name	: --
Vendor	: --
Manufacturer	: --
Supplier	: --
Buyer	: WOLVERINE(SELF-REFERENCE)
Category	: --
Goods Exported To	: --
Country of Origin	: --
Applicant's Ref.	: WELLMAX V NY-07 ANTIPENETRATION MID SOLE
Date Received/Date Test Started	: Mar. 04, 2025
Final Information Confirmed Date	: --

Authorized By:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch



Guiliang Dong  
Senior Lab Manager



VZ/jackiezheng

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检验检测专用章

INTERTEK SHENZHEN (6) BRANCH

Conclusion:

Index	Test Item	Result
1.	Azocolourants and Azodyes test	Pass
2.	Disperse Dyes And Carcinogenic Dyes	Pass
3.	Formaldehyde Content	Pass
4.	Total Cadmium (Cd) Content	Pass
5.	Total Lead (Pb) Content	Pass
6.	Total Arsenic (As) Content	Pass
7.	Organotin Compounds	Pass
8.	pH Value	Pass
9.	Phthalate Content	Pass
10.	Nonylphenol (NP), Octylphenol(OP), Nonylphenol Ethoxylates(NPEO) And Octylphenol Ethoxylates (OPEO) Content:	Pass
11.	Short Chained Chlorinated Paraffin(SCCP) (C10-C13) Content	Pass
12.	Extractable Heavy Metals	Not Applicable
13.	Total Fluorine (F) Content	Pass

Should you have any query on this report, you may contact at [gzfootwear@intertek.com](mailto:gzfootwear@intertek.com)

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## 1 Detection of Amines in Dyestuff

By Gas Chromatographic-Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic Analysis (HPLC).

Test Method : EN ISO 14362-1 : 2017 for Textile Material  
EN ISO 17234-1: 2015 for Leather Material  
EN ISO 14362-3 : 2017 & EN ISO 17234-2: 2011 for p-Aminoazobenzene

NO	Forbidden	Cas No.	Result Method T
1.	4-Amino azobenzene	60-09-3	N
2.	<i>o</i> -Aminoazotoluene	97-56-3	N
3.	4-Aminodiphenyl	92-67-1	N
4.	2-Amino-4-nitrotoluene	99-55-8	N
5.	<i>o</i> -Anisidine	90-04-0	N
6.	Benzidine	92-87-5	N
7.	<i>p</i> -Chloroaniline	106-47-8	N
8.	4-Chloro- <i>o</i> -toluidine	95-69-2	N
9.	<i>p</i> -Cresidine	120-71-8	N
10.	2,4-Diaminoanisole	615-05-4	N
11.	4,4'-Diaminodiphenylmethane	101-77-9	N
12.	3,3'-Dichlorobenzidine	91-94-1	N
13.	3,3'-Dimethoxybenzidine	119-90-4	N
14.	3,3'-Dimethylbenzidine	119-93-7	N
15.	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	N
16.	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	N
17.	2-Naphthylamine	91-59-8	N
18.	4,4'-Oxydianiline	101-80-4	N
19.	4,4'-Thiodianiline	139-65-1	N
20.	2,4-Toluenediamine	95-80-7	N
21.	<i>o</i> -Toluidine	95-53-4	N
22.	2,4,5-Trimethylaniline	137-17-7	N
23.	2,4-Xylidine (China, Japan only)	95-68-1	N
24.	2,6-Xylidine (China, Japan only)	87-62-7	N
25.	4-Chloro- <i>o</i> -toluidinium chloride (detection by 4-Chloro- <i>o</i> -toluidine)	3165-93-3	N
26.	2-Naphthylammoniumacetate (detection by 2-Naphthylamine)	553-00-4	N
27.	4-Methoxy-m-phenylene diammonium sulphate (detection by 4-methyl-m-phenylenediamine)	39156-41-7	N
28.	2,4,5-Trimethylaniline hydrochloride (detection by 2,4,5-trimethylaniline)	21436-97-5	N

Remark : N = Not detected

Detection Limit = 5 ppm

Client's Requirement = 20 ppm

ppm = parts per million = mg/kg

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

Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

Method L : EN ISO 17234-1: 2015

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 2 Disperse Dyes And Carcinogenic Dyes

With Reference To DIN 54231:2022, By Liquid Chromatography – Mass Spectrometric (LC-MS-MS) Determination.

<u>Compound</u>	<u>Result (ppm)</u>	<u>Requirement (ppm)</u>
Disperse Blue 1	ND	30
Disperse Blue 35	ND	30
Disperse Blue 106	ND	30
Disperse Blue 124	ND	30
Disperse Orange 3	ND	30
Disperse Orange 37/59/76	ND	30
Disperse Red 1	ND	30
Disperse Yellow 3	ND	30
Acid Red 26	ND	30
Basic Red 9	ND	30
Basic Violet 3	ND	30
Basic Violet 14	ND	30
Direct Blue 6	ND	30
Direct Black 38	ND	30
Direct Red 28	ND	30
Disperse Orange 11	ND	30

Remark: ND = Not Detected  
Detection Limit = 15 ppm

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

### 3 Formaldehyde Content

As Per ISO 14184-1:2011 For Textile, And ISO 17226-1:2021 For Leather, Analysis by UV-Visible Spectrophotometer and High Performance Liquid Chromatography respectively.

Result In ppm

Limit In ppm

>36 months

ND

75

Remark: ppm = Parts Per Million = mg/kg

Detection limit=5 ppm

ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

### 4 Total Cadmium (Cd) Content

Acid Digestion Method Was Used And Total Cadmium Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

Result In ppm

Limit (ppm)

ND

40

Remark: ppm = Parts Per Million = mg/kg

Detection Limit = 5 mg/kg

ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 5 Total Lead (Pb) Content

As Per Client's Request, Acid Digestion Method Was Used And Total Lead Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

Result In ppm  
ND

Limit in ppm  
40

Remark: ppm = Parts Per Million = mg/kg  
Detection Limit = 10 ppm  
ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 6 Total Arsenic (As) Content

As Per Client's Request, Acid Digestion Method Was Used And Total Lead Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

Result In ppm  
ND

Limit in ppm  
100

Remark: ppm = Parts Per Million = mg/kg  
Detection Limit = 5 ppm  
ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 7 Organotin Compounds:

By Gas Chromatographic - Mass Spectrometric (GC-MS) Analysis.  
Test Method: With reference to ISO/TS 16179:2012

Compounds	Result In ppm	Limit (ppm)
Tributyl Tin (TBT)	ND	0.5
Triphenyl Tin (TPHT)	ND	0.5
Dibutyl Tin (DBT)	ND	1000
Dioctyl Tin (DOT)	ND	1000
Sum of <b>Tri</b> substituted Tin compounds^	ND	1000

Remark : ppm = Parts Per Million = mg/kg

Detection limit = 0.05 ppm

ND = Not Detected

^ = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 8 pH Value

For Non Leather: With Reference To ISO 3071:2020, KCl Solution Was Used For Extraction, pH Value Was Measured By pH Meter.

For Non Leather(>36 months no-skin contact)

Result	Limit
6.0	4.0-9.0

Temperature Of The Extracting Solution: 24.1 °C

pH Of The Extracting Solution: 5.88

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

## 9 Phthalate Content

With Reference To CPSC-CH-C1001-09.4, By Gas Chromatograph-Mass Spectrometric (GC-MS) Analysis.

Compounds	CAS No.	Result In ppm	Limit In ppm
Dibutyl phthalate (DBP)	84-74-2	ND	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	
Benzyl butyl phthalate (BBP)	85-68-7	ND	
Di-isononyl phthalate (DINP)	28553-12-0	ND	
	68515-48-0		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	
Di-isodecyl phthalate (DIDP)	26761-40-0	ND	
	68515-49-1		
Di-n-hexyl phthalate (DnHP/DHEXP)	84-75-3	ND	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	
Di-isobutyl phthalate (DIBP)	84-69-5	ND	
Di-isopentyl phthalate (DIPP)	605-50-5	ND	
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	
Di-cyclohexyl phthalate (DCHP)	84-61-7	ND	
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	
Sum of the above 13 Phthalates	-	ND	<1000

Remark : ppm = Parts Per Million = mg/kg  
Detection Limit = 100 ppm  
ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.



10 Nonylphenol (NP), Octylphenol(OP), Nonylphenol Ethoxylates(NPEO) And Octylphenol Ethoxylates (OPEO) Content:

By Solvent Extraction And Followed By Liquid Chromatographic - Mass Spectrometric (LC-MS) Analysis.

<u>Compound</u>	<u>Result (ppm)</u>	<u>Requirement (ppm)</u>
NP	ND	100
OP	ND	100
NPEO	ND	100
OPEO	ND	100

Remark : ND =Not Detected

Detection Limit=10 ppm

ppm = Parts Per Million = mg/kg

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

11 Short Chained Chlorinated Paraffin(SCCP) (C10-C13) Content

With Reference To ISO 18219:2015, By Solvent Extraction, Determined By Gas Chromatographic-Mass Spectrometric (GC-MS) Or Liquid Chromatography /Tandem Mass Spectrometer (LC-MS-MS) Analysis.

<u>Result In ppm</u>	<u>Limit In ppm</u>
ND	<u>1000</u>

Remark: ppm = Parts Per Million=mg/kg

Detection Limit = 100 mg/kg

ND = Not Detected

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.

12 Extractable Heavy Metals:

For Non-Leather Materials With Reference to EN 16711-2:2015 or EN ISO 17075-1:2017 (For Cr VI confirmation), Determined By Inductively Coupled Argon Plasma Mass Spectrometric (ICP-MS) or UV-Visible Spectrophotometer Analysis.

Result In ppm
Not Applicabl

13 Total Fluorine (F) Content:

With Reference to EN 14582:2016 By Combustion In A Calorimetric Bomb And Determined By Ion Chromatography.

Compound	Result In ppm	Requirement
Fluorine (F) Content	ND	ND

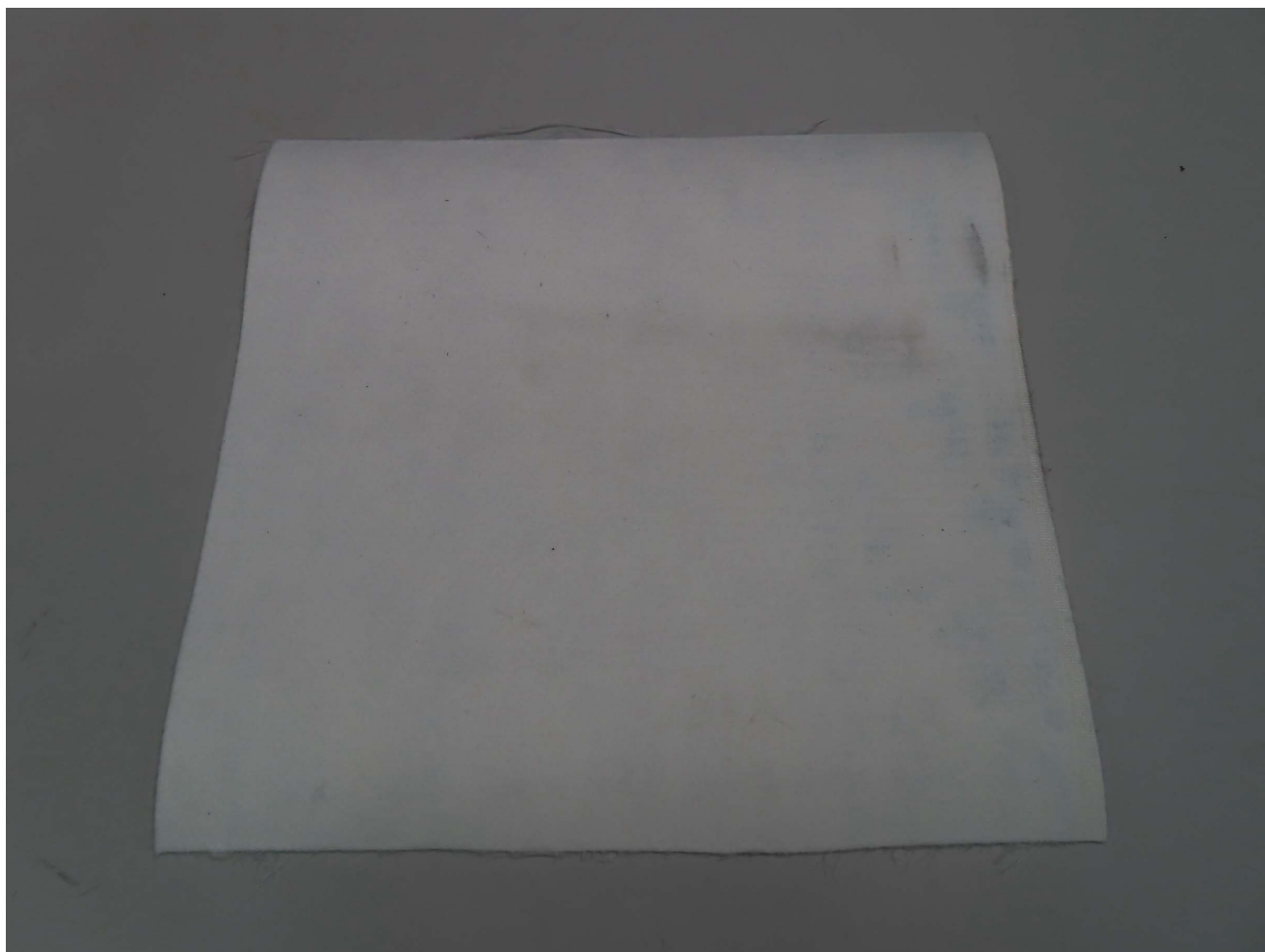
Remark : Reporting limit = 20 ppm

ND = Not Detected

ppm = Parts per million = mg/kg

Tested Components: WELLMAX V NY-07 ANTIPENETRATION MID SOLE In White.





End of Report

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Page 12 Of 12

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