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CERTIFIED BY



= According to ICEC TS 406 =

ICEC: Institute Accredited Accredia
for Quality of Leather Area
Cert. N°: CERT-006-2006-LAB ICEC

Laboratory and Offices:
via Risorgimento, 16
56024 Ponte a Egola – San Miniato (PI)
Italy



COMPANY WITH
QUALITY SYSTEM
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= ISO 9001 =

DNV: Institute Accredited Accredia for Certification
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Cert. N°: CERT-17087-2006-AQ-MIL-SINCERT

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CERTEST S.r.l.

Laboratory of Analysis, Technical Consulting

RECEIPT 23/10/2014

TESTING DATES FROM 23/10/2014 TO 30/10/2014

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COMMITTENT
GRITTI GROUP S.p.A (English)
Via Zanica 6/F
24050 Grassobbio BG

LABORATORY REPORT N° 1417038 of 30/10/2014

DENOMINATION Analyses purchased by: Germano ZAMBELLI
Purchase Order: /
Article: MADREPERLA 719 LIN. 18

Colour: H204 FLP
Type of Material: Button
Testing Standard Reference: DETOX PROGRAM



Approved on behalf of CERTEST S.r.l. by:
Dr.ssa Verena BARTALINI, Laboratory Manager



Analysis valid for all legal purposes (R.D. 1 March 1928 n. 842)

Laboratory working in conformity to the norm UNI CEI EN ISO/IEC 17025:2005

SOCIO UNI

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GRITTI GROUP S.p.A (English)
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LABORATORY REPORT N° 1417038 of 30/10/2014

TEST METHOD	ANALYSIS DESCRIPTION	RESULT '	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
	Sample 1417038.01						
Determination of Phthalates in footwear materials - Test Method: UNI CEN ISO TS 16181: 2011 <u>Operating Conditions</u> - Test executed on the total sample mass - Extraction in ultrasonic bath - Detection by GC-MS analysis	Phthalates in the Substrate						
	Dibutyl Phthalate (DBP) (CAS N. 84-74-2)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis-2-Ethylhexyl Phthalate (DEHP) (CAS N. 117-81-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1)	< L.O.Q.	<0,01	%	0,01		Pass
	Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5)	< L.O.Q.	<0,001	%	0,001		Pass
	Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3)	< L.O.Q.	<0,001	%	0,001		Pass
	Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8)	< L.O.Q.	<0,001	%	0,001		Pass
	Diundecil Phthalate (DHNUP) (CAS N. 68515-42-4)	< L.O.Q.	<0,01	%	0,01		Pass
	Diisoesil Phthalate (DIHP) (CAS N. 146-50-9)	< L.O.Q.	<0,001	%	0,001		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<0,001	%	0,001		Pass
	Determination of certain AZO colorants in dyed leathers. Part 1: Determination of certain aromatic amines derived from azo colorants - Test Method: UNI EN ISO 17234-1: 2010 EC1: 2011 <u>Operating Conditions</u> - Qualitative Detection: GC-MS - Quantitative Detection: HPLC-DAD	Aromatic amines derived from azodyes on leather					
2-Amino-4-nitrotoluene (CAS 99-55-8).		< L.O.Q.	<5	mg/kg	5		Pass
o-Aminoazotoluene (CAS 97-56-3)		< L.O.Q.	<5	mg/kg	5		Pass
4 - Aminobiphenil (CAS 92-67-1)		< L.O.Q.	<5	mg/kg	5	(1)	Pass
2,4,5-Trimethylaniline (CAS 137-17-7)		< L.O.Q.	<5	mg/kg	5		Pass

Continuing...

Approved on behalf of CERTEST S.r.l. by:
Dr.ssa Verena BARTALINI – Laboratory Manager



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TEST METHOD	ANALYSIS DESCRIPTION	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	2,4-Diaminoanisole (CAS 615-05-04)	< L.O.Q.	<5	mg/kg	5		Pass
	2,4-Toluenediamine (CAS 95-80-7)	< L.O.Q.	<5	mg/kg	5		Pass
	2-Methoxyaniline (CAS 90-04-0)	< L.O.Q.	<5	mg/kg	5		Pass
	2-Naphthylamine (CAS 91-59-8)	< L.O.Q.	<5	mg/kg	5	(1)	Pass
	3,3'-Dichlorobenzidine (CAS 91-94-1)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethoxybenzidine (CAS 119-90-4)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethyl-4,4'-diaminodiphenylmethane (CAS 838-88-0)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethylbenzidine (CAS 119-93-7)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Diaminodiphenylmethane (CAS 101-77-9)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Methylene-bis-(2-chloroaniline) (CAS 101-14-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Oxydianiline (CAS 101-80-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-Thiodianiline (CAS 139-65-1)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Chloro-o-toluidine (CAS 95-69-2)	< L.O.Q.	<5	mg/kg	5		Pass
	Benzidine (CAS 92-87-5)	< L.O.Q.	<5	mg/kg	5		Pass
	o-Toluidine (CAS 95-53-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Chloroaniline (CAS 106-47-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Cresidine (CAS 120-71-8)	< L.O.Q.	<5	mg/kg	5		Pass
	2,4 - Xylidine (CAS 95-68-1)	< L.O.Q.	<5	mg/kg	5		Pass
	2,6 - Xylidine (CAS 87-62-7)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Aminoazobenzene (CAS 60-09-3)	< L.O.Q.	<5	mg/kg	5		Pass
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 <u>Operating Conditions</u> - Detection by GC-MS analysis							
Organotin compounds							
	MBT	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	DBT	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	TBT	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	TPhT	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	DOT	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	MOT	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	DPhT	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	TeBT	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	TCyT	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	TPt	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	TeET	< L.O.Q.	<0,02	mg/kg	0,02		Pass

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Dr.ssa Verena BARTALINI - Laboratory Manager



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LABORATORY REPORT N° 1417038 of 30/10/2014

TEST METHOD	ANALYSIS DESCRIPTION	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Solvent extraction and GC-MS analysis	Chlorobenzenes						
	Chlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2-Dichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,3-Dichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,4-Dichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2,3-Trichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2,4-Trichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,3,5-Trichlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2,3,4-Tetrachlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2,3,5-Tetrachlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2,4,5-Tetrachlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Pentachlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Hexachlorobenzene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2-Chlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	3-Chlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	4-Chlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,3-Dichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,4-Dichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,5-Dichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,6-Dichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	3,4-Dichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,3,6-Trichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	2,4,5-Trichlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Tetrachlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Pentachlorotoluene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Chlorinated solvents						
	Dichloromethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Chloroform	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Tetrachloromethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1,2-Trichloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1-Dichloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,2-Dichloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1,1-Trichloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1,1,2-Tetrachloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1,2,2-Tetrachloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Pentachloroethane	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	1,1-Dichloroethylene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Trichloroethylene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	Tetrachloroethylene	< L.O.Q.	<0,01	mg/kg	0,01		Pass
Determination of Chromium VI - Test method: GB/T 28019: 2011							
	Chromium [Cr VI]	< L.O.Q.	<3,0	mg/kg	3,0		Pass

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Dr.ssa Verena BARTALINI - Laboratory Manager



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TEST METHOD	ANALYSIS DESCRIPTION	RESULT '	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS."
Assessment of ecological criteria - Test Method: UNI EN 14602:2012 Par. 4.1 + ISO 17294-2: 2003 <u>Operating Conditions</u> - Microwave digestion according to method C - Determination by ICP-MS analysis	Heavy Metals Total Cadmium [Cd] Content Total Lead [Pb] Content Total Mercury [Hg] Content Total Arsenic [As] Content	< L.O.Q.	<0,02	mg/kg	0,02		Pass
		< L.O.Q.	<0,5	mg/kg	0,5		Pass
		< L.O.Q.	<0,001	mg/kg	0,001		Pass
		< L.O.Q.	<0,005	mg/kg	0,005		Pass

Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphtylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

' The symbol < followed by a number indicates that the concentration of the analyte is less than the Limit of Quantification

" The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

DNV and ICEC certifications are applied to following processes: "Provision of laboratory testing and related technical-normative assistance of leather, fabrics, leathersgoods, apparel, footwear and accessories / components"

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

This report has been issued by Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer only to the sample submitted to tests in our laboratory and not the whole lot they represent. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial reproduction of this document is allowed subject to Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for one year if not otherwise required.

The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10.

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