

Client Name: SPORTING WHOLESALE LTD
Client Address: UNIT 3 THE QUAD, GREAT MARLINGS, LUTON, LU2 8EF, UK

Sample Name: NGT Handwarmer - Fleece lined with three heat settings with Neck Strap
Tested Basic Model No.: LA-22032
The above sample(s) and information were provided by the client.

SGS Job No.: NBP24-004215
Sample Receiving Date: Jul 17, 2024
Verification Period: Jul 17, 2024 ~ Jul 31, 2024
Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.
Verification Method(s): Please refer to next page(s).
Verification Result(s): Please refer to next page(s).

Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Damon Li

Damon Li
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Chemical Laboratory

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Photo of Submitted Sample



Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0040450-0001.C001	Dark green fiber bar
SN2	A2	NGB24-0040450-0001.C002	Black plastic bracket
SN3	A3	NGB24-0040450-0001.C003	Dark green fiber piece
SN4	A4	NGB24-0040450-0001.C004	Dark green fiber hair
SN5	A5	NGB24-0040450-0001.C005	Colourful fiber piece
SN6	A6	NGB24-0040450-0001.C006	Semitransparent fiber piece
SN7	A7	NGB24-0040450-0001.C007	White foam
SN8	A8	NGB24-0040450-0001.C008	Dark green plastic zipper teeth
SN9	A9	NGB24-0040450-0001.C009	Dark green fiber bar
SN10	A10	NGB24-0040450-0001.C010	Black plastic lump
SN11	A11	NGB24-0040450-0001.C011	Silvery gray metal zipper head
SN12	A12	NGB24-0040450-0001.C012	Green PCB body
SN13	A13	NGB24-0040450-0001.C013	Silvery metal soldering tin
SN14	A14	NGB24-0040450-0001.C014	Black rubber button
SN15	A15	NGB24-0040450-0001.C015	Transparent plastic piece
SN16	A16	NGB24-0040450-0001.C016	Black solid adhesive
SN17	A17	NGB24-0040450-0001.C017	Golden metal lump
SN18	A18	NGB24-0040450-0001.C018	Transparent plastic sheath
SN19	A19	NGB24-0040450-0001.C019	Black plastic lump
SN20	A20	NGB24-0040450-0001.C020	Black fiber bar
SN21	A21	NGB24-0040450-0001.C021	Black plastic lump
SN22	A22	NGB24-0040450-0001.C022	Silvery metal bracket
SN23	A23	NGB24-0040450-0001.C023	Silvery metal pin
SN24	A24	NGB24-0040450-0001.C024	White plastic lump
SN25	A25	NGB24-0040450-0001.C025	Semitransparent plastic lump
SN26	A26	NGB24-0040450-0001.C026	Red rubber jacket
SN27	A27	NGB24-0040450-0001.C027	Red black rubber jacket
SN28	A28	NGB24-0040450-0001.C028	White fiber piece



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	ND	ND	BL	BL	BL	BL
PBDE	BL	BL	ND	ND	BL	BL	BL	BL
DEHP	BL	BL	BL	BL	BL	BL	BL	BL
BBP	BL	BL	BL	BL	BL	BL	BL	BL
DBP	BL	BL	BL	BL	BL	BL	BL	BL
DIBP	BL	BL	BL	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	ND	BL	---	ND	---	BL	BL	BL
PBDE	ND	BL	---	ND	---	BL	BL	BL
DEHP	BL	BL	---	BL	---	BL	ND	BL
BBP	BL	BL	---	BL	---	BL	ND	BL
DBP	BL	BL	---	BL	---	BL	ND	BL
DIBP	BL	BL	---	BL	---	BL	ND	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	ND	BL	BL
PBB	---	BL	BL	BL	BL	---	---	BL
PBDE	---	BL	BL	BL	BL	---	---	BL
DEHP	---	ND	BL	BL	BL	---	---	BL
BBP	---	ND	BL	BL	BL	---	---	BL
DBP	---	ND	BL	BL	BL	---	---	BL
DIBP	---	ND	BL	BL	BL	---	---	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A25	A26	A27	A28
Pb	BL	BL	BL	BL
Hg	BL	BL	BL	BL
Cd	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL



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Test Item(s)	A25	A26	A27	A28
PBB	BL	BL	BL	BL
PBDE	BL	BL	BL	BL
DEHP	BL	BL	BL	BL
BBP	BL	BL	BL	BL
DBP	BL	BL	BL	BL
DIBP	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymers	Metals	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region) = Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Hg	Cd	DEHP	BBP	DBP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ = Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus



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Cr(VI) results represent status of the sample at the time of testing.

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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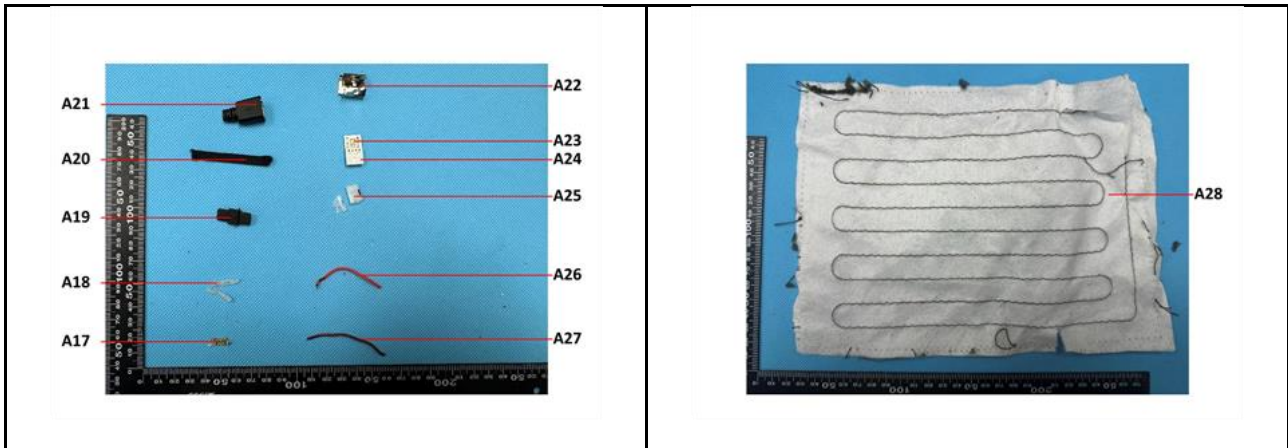
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Sample photos:





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