



Test Report

No.: NBHL1802002209TY

Date: FEB. 26, 2018

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

Sample Description : ATLANTIK MODELING CLAY

Sample Quantity : 2SETS

Supplier :

Manufacturer :

Labelled Age Grading : NOT SUITABLE FOR CHILDREN UNDER 3 YEARS

Requested Age Grading : 3+ YEARS

Age Group Assessed As Per Age Guideline : 3+ YEARS

Age Group Applied in Testing : 3+ YEARS

Sample Receiving Date : FEB. 11, 2018

Further Information Date : FEB. 12, 2018

Testing Period : FEB. 11, 2018 TO FEB. 26, 2018

Test Requested

EN 71-1:2014 – Safety of toys – Part 1: Mechanical and Physical Properties
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-
Safety of toys

EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability

EN 71-3:2013+A2:2017 under European Directive 2009/48/EC-Migration of certain

EN71-9:2005+A1:2007–Preservatives (other than Wood Preservatives)(As specified by client)

EN71-9:2005+A1:2007 - Primary Aromatic Amines(As specified by client)

EN71-9:2005+A1:2007 - Colorants(As specified by client)

Result

Pass

See Result

Pass

Pass

See Result

Pass

Pass

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

Sarah Li

Sarah Li
Authorized Signatory



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Test Conducted:
European Standard on Safety of Toys
EN 71-1:2014 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2014 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Description	Result
4	General requirements	
4.1	Material cleanliness**	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
** Visual Examination		

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Absent	/
Product ID	Present	Packaging

Note:

- CE marking should be visible from outside the packaging and its height must be at least 5mm.
- Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:



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Clause	Description	Result
4.1	General requirements	Pass

N.B. : - Only applicable clauses were shown.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	05080047.001	White modeling clay
SN2	05080047.002	Pink modeling clay
SN3	05080047.003	Rose modeling clay
SN4	05080047.004	Red modeling clay
SN5	05080047.005	Orange modeling clay
SN6	05080047.006	Yellow modeling clay
SN7	05080047.007	Grass green modeling clay
SN8	05080047.008	Green modeling clay
SN9	05080047.009	Lake blue modeling clay
SN10	05080047.010	Dark blue modeling clay
SN11	05080047.011	Purple modeling clay
SN12	05080047.012	Black modeling clay
SN13	05080046.013	White modeling clay + Pink modeling clay +Rose modeling clay
SN14	05080046.014	Red modeling clay + Orange modeling clay + Yellow modeling clay
SN15	05080046.015	Grass green modeling clay + Green modeling clay + Lake blue modeling clay
SN16	05080046.016	Dark blue modeling clay + Purple modeling clay + Black modeling clay

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN 71-3:2013+A2:2017 under European Directive 2009/48/EC-Migration of certain elements(Category I:for dry, brittle, powder-like or pliable toy material)

Test Method : With reference to EN 71-3:2013+A2:2017, analysis was performed by ICP-MS
Soluble Organic Tin was analyzed by GC-MS.
Soluble Chromium (VI) was analyzed by IC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI)	0.02	mg/kg	0.018	ND	ND	ND
Soluble Lead (Pb)	13.5	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND



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Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.36	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.9	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI)	0.02	mg/kg	0.018	ND	ND	ND
Soluble Lead (Pb)	13.5	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.36	ND	ND	ND



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^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.9	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008	009
Soluble Chromium (VI)	0.02	mg/kg	0.018	ND	ND	ND
Soluble Lead (Pb)	13.5	mg/kg	0.5	ND	ND	ND
Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.36	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.9	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	010	011	012
Soluble Chromium (VI)	0.02	mg/kg	0.018	ND	ND	ND
Soluble Lead (Pb)	13.5	mg/kg	0.5	ND	ND	ND



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Soluble Antimony (Sb)	45	mg/kg	1	ND	ND	ND
Soluble Arsenic (As)	3.8	mg/kg	0.5	ND	ND	ND
Soluble Barium (Ba)	1500	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	1.3	mg/kg	0.1	ND	ND	ND
Soluble Chromium (III) (Cr III)	37.5	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	7.5	mg/kg	0.5	ND	ND	ND
Soluble Selenium (Se)	37.5	mg/kg	5	ND	ND	ND
Soluble Boron (B)	1200	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	10.5	mg/kg	0.5	ND	ND	ND
Soluble Manganese (Mn)	1200	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	4500	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	3750	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	622.5	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	5625	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	75	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	15000	mg/kg	0.36	ND	ND	ND
^Methyl tin (MeT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-propyl tin (DProT)	-	mg/kg	0.14	ND	ND	ND
^Dibutyl tin (DBT)	-	mg/kg	0.14	ND	ND	ND
^Tributyl tin (TBT)	-	mg/kg	0.14	ND	ND	ND
^n-Octyl tin (MOT)	-	mg/kg	0.14	ND	ND	ND
^Tetrabutyl tin (TeBT)	-	mg/kg	0.14	ND	ND	ND
^Diphenyl tin (DPHT)	-	mg/kg	0.14	ND	ND	ND
^Di-n-octyl tin (DOT)	-	mg/kg	0.14	ND	ND	ND
^Triphenyl tin (TPHT)	-	mg/kg	0.14	ND	ND	ND
^Butyl tin (BuT)	-	mg/kg	0.14	ND	ND	ND
Sum of Soluble Organic Tin	0.9	mg/kg	-	ND	ND	ND

Notes :

(1) ^ means the Organic Tin specified in EN 71-3:2013+A2:2017 and it is analyzed by GC-MS

EN71-9:2005+A1:2007-Preservatives (other than Wood Preservatives)(As specified by client)

Test Method : With reference to EN71 10:2005 followed by analysis with reference to EN71 11:2005.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	002	003
Formaldehyde (free)	50-00-0	500	mg/kg	30	ND	ND	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	004	005	006
Formaldehyde (free)	50-00-0	500	mg/kg	30	ND	ND	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	007	008	009
Formaldehyde (free)	50-00-0	500	mg/kg	30	ND	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Formaldehyde (free)	50-00-0	500	mg/kg	30	ND	ND	ND

Notes :

(1) These tests were subcontracted to SGS Shanghai chemical lab.

EN71-9:2005+A1:2007 - Primary Aromatic Amines(As specified by client)

Test Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Aniline	62-53-3	5	mg/kg	2	ND	ND	ND
o-Toluidine	95-53-4	5	mg/kg	2	ND	ND	ND
2-Methoxyaniline	90-04-0	5	mg/kg	2	ND	ND	ND
4-Chloroaniline	106-47-8	5	mg/kg	2	ND	ND	ND
2-Naphthylamine	91-59-8	5	mg/kg	2	ND	ND	ND
Benzidine	92-87-5	5	mg/kg	2	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	5	mg/kg	2	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	5	mg/kg	2	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	5	mg/kg	2	ND	ND	ND
Conclusion					PASS	PASS	PASS

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>
Aniline	62-53-3	5	mg/kg	2	ND
o-Toluidine	95-53-4	5	mg/kg	2	ND
2-Methoxyaniline	90-04-0	5	mg/kg	2	ND
4-Chloroaniline	106-47-8	5	mg/kg	2	ND
2-Naphthylamine	91-59-8	5	mg/kg	2	ND
Benzidine	92-87-5	5	mg/kg	2	ND
3,3'-Dimethylbenzidine	119-93-7	5	mg/kg	2	ND
3,3'-Dichlorobenzidine	91-94-1	5	mg/kg	2	ND
3,3'-Dimethoxybenzidine	119-90-4	5	mg/kg	2	ND
Conclusion					PASS

Notes :

(1) These tests were subcontracted to SGS Shanghai chemical lab.

EN71-9:2005+A1:2007 - Colorants(As specified by client)

Test Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>
Basic Red 9	569-61-9	10	mg/kg	2	ND
Acid Violet 49	1694-09-3	10	mg/kg	2	ND



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Disperse Blue 1	2475-45-8	10	mg/kg	2	ND
Disperse Blue 3	2475-46-9	10	mg/kg	2	ND
Basic Violet 1	8004-87-3	10	mg/kg	2	ND
Disperse Blue 106	68516-81-4/12223	10	mg/kg	2	ND
	-01-7				
Solvent Yellow 1	60-09-3	10	mg/kg	2	ND
Basic Violet 3	548-62-9	10	mg/kg	2	ND
Disperse Orange 3	730-40-5	10	mg/kg	2	ND
Disperse Yellow 3	2832-40-8	10	mg/kg	2	ND
Disperse Red 1	2872-52-8	10	mg/kg	2	ND
Solvent Yellow 3	97-56-3	10	mg/kg	2	ND
Disperse Blue 124	61951-51-7	10	mg/kg	2	ND
Disperse Orange 37/76	12223-33-5	10	mg/kg	2	ND
Solvent Yellow 2	60-11-7	10	mg/kg	2	ND
Acid Red 26	3761-53-3	10	mg/kg	2	ND

Conclusion

PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	014
Basic Red 9	569-61-9	10	mg/kg	2	ND
Acid Violet 49	1694-09-3	10	mg/kg	2	ND
Disperse Blue 1	2475-45-8	10	mg/kg	2	ND
Disperse Blue 3	2475-46-9	10	mg/kg	2	ND
Basic Violet 1	8004-87-3	10	mg/kg	2	ND
Disperse Blue 106	68516-81-4/12223	10	mg/kg	2	ND
	-01-7				
Solvent Yellow 1	60-09-3	10	mg/kg	2	ND
Basic Violet 3	548-62-9	10	mg/kg	2	ND
Disperse Orange 3	730-40-5	10	mg/kg	2	ND
Disperse Yellow 3	2832-40-8	10	mg/kg	2	ND
Disperse Red 1	2872-52-8	10	mg/kg	2	ND
Solvent Yellow 3	97-56-3	10	mg/kg	2	ND
Disperse Blue 124	61951-51-7	10	mg/kg	2	ND
Disperse Orange 37/76	12223-33-5	10	mg/kg	2	ND
Solvent Yellow 2	60-11-7	10	mg/kg	2	ND
Acid Red 26	3761-53-3	10	mg/kg	2	ND

Conclusion

PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	015
Basic Red 9	569-61-9	10	mg/kg	2	ND
Acid Violet 49	1694-09-3	10	mg/kg	2	ND
Disperse Blue 1	2475-45-8	10	mg/kg	2	ND
Disperse Blue 3	2475-46-9	10	mg/kg	2	ND
Basic Violet 1	8004-87-3	10	mg/kg	2	ND
Disperse Blue 106	68516-81-4/12223	10	mg/kg	2	ND
	-01-7				
Solvent Yellow 1	60-09-3	10	mg/kg	2	ND



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Basic Violet 3	548-62-9	10	mg/kg	2	ND
Disperse Orange 3	730-40-5	10	mg/kg	2	ND
Disperse Yellow 3	2832-40-8	10	mg/kg	2	ND
Disperse Red 1	2872-52-8	10	mg/kg	2	ND
Solvent Yellow 3	97-56-3	10	mg/kg	2	ND
Disperse Blue 124	61951-51-7	10	mg/kg	2	ND
Disperse Orange 37/76	12223-33-5	10	mg/kg	2	ND
Solvent Yellow 2	60-11-7	10	mg/kg	2	ND
Acid Red 26	3761-53-3	10	mg/kg	2	ND

Conclusion

PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	Q16
Basic Red 9	569-61-9	10	mg/kg	2	ND
Acid Violet 49	1694-09-3	10	mg/kg	2	ND
Disperse Blue 1	2475-45-8	10	mg/kg	2	ND
Disperse Blue 3	2475-46-9	10	mg/kg	2	ND
Basic Violet 1	8004-87-3	10	mg/kg	2	ND
Disperse Blue 106	68516-81-4/12223	10	mg/kg	2	ND

	-01-7				
Solvent Yellow 1	60-09-3	10	mg/kg	2	ND
Basic Violet 3	548-62-9	10	mg/kg	2	ND
Disperse Orange 3	730-40-5	10	mg/kg	2	ND
Disperse Yellow 3	2832-40-8	10	mg/kg	2	ND
Disperse Red 1	2872-52-8	10	mg/kg	2	ND
Solvent Yellow 3	97-56-3	10	mg/kg	2	ND
Disperse Blue 124	61951-51-7	10	mg/kg	2	ND
Disperse Orange 37/76	12223-33-5	10	mg/kg	2	ND
Solvent Yellow 2	60-11-7	10	mg/kg	2	ND
Acid Red 26	3761-53-3	10	mg/kg	2	ND

Conclusion

PASS

Notes :

- (1) These tests were subcontracted to SGS Shanghai chemical lab.

Remark:

- (1) Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.



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