



Test Report

No.: SHHL2003506993TY

Date: APR. 07, 2020

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HAPE INTERNATIONAL (NINGBO) LTD
HAPPY ARTS&CRAFTS (NINGBO) CO., LTD
9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : SUPER SPIRALS/ CONTROL-BLOCK MULTIPACK/ DOUBLE-SIDED SPIRAL TWIST
Sample Quantity : 9 SETS
Style / Item No. : E6024,E6025,E6026
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 4-99Y
Requested Age Grading : 4-99Y
Client Reference Information: : E6024A,E6025A,E6026A
Age Group Assessed as Per Age Guideline : 4+ YEARS
Age Group Applied in Testing : 4+ YEARS
Sample Receiving Date : MAR. 18, 2020
Further Information Date : APR. 03, 2020
Testing Period : MAR. 18, 2020 TO APR. 07, 2020

Table with 2 columns: Test Requested, Result. Rows include ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Pass), Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products (Pass), Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. requirement Lead (Pass), Lead(Pb) (Pass), CPSIA section 101(f) Lead in paint/similar surface coating material (Pass), CPSIA section 101(a)(2) Lead in accessible substrate materials (Pass), CPSIA section 101(a)(2) Lead in accessible substrate materials (Pass).

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****



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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



scan to see the report



SHHL2003506993TY

Wallace Lui
Senior Technical Manager, Asia



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Result:

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of test result)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6	Small Objects	
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>
	(Remark: No applicable because of the weight of part link with hinge is less than 0.5lb.)	
4.33	Marbles	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>



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N/A = Not Applicable

** Visual Examination

Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
SUPER SPIRALS/ CONTROL-BLOCK MULTIPACK/ DOUBLE-SIDED SPIRAL TWIST	0.03

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

Flammability Test on Textile Materials

<u>Samples</u>	As received					After washing					<u>Results</u>		
	1	2	3	4	5	<u>Ave.</u>	1	2	3	4		5	<u>Ave.</u>
White fabric	DNI	DNI	DNI	DNI	DNI	---	DNI	DNI	DNI	DNI	DNI	---	Pass

DNI = Did Not Ignite

IBE = Ignite But Extinguished

Plain Surface Fabrics

- Requirements:
- (1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof.
 - (2) Average burn time is 3.5 s or greater.

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



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TRACKING LABEL PER CONSUMER PRODUCT SAFETY IMPROVEMENT ACT (CPSIA) OF 2008 SECTION 103 TRACKING LABELS FOR CHILDREN'S PRODUCTS.

Note 1: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging:

E6024: NBCN 11/2019
E6025: NBCN 12/18
E6026: NBCN 10/20

- Tracking label found on the surface of the product:

E6024: NBCN 11/2019
E6025: NBCN 12/18
E6026: NBCN 10/20

Note 2: 1) The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

2) City and State, or administrative state shall be also provided for the source (location) information.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-043766.001	Colorful coating with paper
SN2	SHA20-043766.002	Silvery metal staple
SN3	SHA20-043766.003	Orange ABS
SN4	SHA20-043766.004	Black silicone
SN5	SHA20-043766.005	Red ABS
SN6	SHA20-043766.006	Beige ABS
SN7	SHA20-043766.007	Transparent coating on wood
SN8	SHA20-043766.008	Plywood
SN9	SHA20-043766.009	Transparent glass bead
SN10	SHA20-043766.010	Red coating on wood
SN11	SHA20-043766.011	Yellow coating on wood
SN12	SHA20-043766.012	Lt. blue coating
SN13	SHA20-043766.013	Red/white fabric label
SN14	SHA20-043766.014	White fabric bag
SN15	SHA20-043766.015	White cord
SN16	SHA20-043766.016	Purple PA



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Specimen No.	SGS Sample ID	Description
SN17	SHA20-043766.017	Grey coating on wood
SN18	SHA20-043766.018	Orange coating on wood
SN19	SHA20-043766.019	Brown coating
SN20	SHA20-043766.020	Solid wood
SN21	SHA20-043766.021	Cream ABS(ring)
SN22	SHA20-043766.022	Cream PP(sheet)
SN23	SHA20-043766.023	Grass green coating (on wood)
SN24	SHA20-043766.024	Turquoise coating on wood
SN25	SHA20-043766.025	White ABS
SN26	SHA20-043766.026	Transparent ABS
SN27	SHA20-043766.027	Turquoise ABS
SN28	SHA20-043766.028	White coating on plastic(flag)

Remarks :

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

American Society for Testing and Materials –ASTM F 963-17– total Lead in paint and similar surface-coating materials

Test Method : With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS.

Test Item(s)	Limit	Unit	MDL	001	007	010
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	011	012	017
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	018	019	023
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	024	028
Total Lead (Pb)	90	mg/kg	20	ND	ND



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Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead

Test Method : With reference to CPSC Test Method: CPSC-CH-E1003-09.1, analysis was performed by AAS.

Test Item(s)	Limit	Unit	MDL	<u>001</u>	<u>007</u>	<u>010</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	<u>011</u>	<u>012</u>	<u>017</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	<u>018</u>	<u>019</u>	<u>023</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	<u>024</u>	<u>028</u>
Lead (Pb)	0.009	%	0.002	ND	ND
Conclusion				PASS	PASS

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS.

Test Item(s)	Limit	Unit	MDL	<u>002</u>
Total Lead (Pb)	100	mg/kg	20	ND



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Lead(Pb)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Lead (Pb)	40	mg/kg	2	ND
Conclusion				PASS

Notes :

- (1) The maximum permissible limit is quoted from the client requirement.

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>009</u>	<u>016</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>022</u>	<u>025</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

Lead(Pb)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>009</u>	<u>016</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>022</u>	<u>025</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>
Lead (Pb)	40	mg/kg	2	ND	ND
Conclusion				PASS	PASS

Notes :

(1) The maximum permissible limit is quoted from the client requirement.

American Society for Testing and Materials –ASTM F 963-17 – soluble Heavy Metal for paint and similar surface-coating materials/ Substrate Materials

Test Method : With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>003</u>	<u>004</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>	<u>006</u>	<u>007</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	<u>009</u>	<u>010</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>013</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>	<u>015</u>	<u>016</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>	<u>019</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	-	-
Soluble Antimony (Sb)	60	mg/kg	5	ND	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	ND	-	-
Soluble Barium (Ba)	1000	mg/kg	10	ND	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	ND	-	-
Soluble Chromium (Cr)	60	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	60	mg/kg	5	ND	-	-
Soluble Selenium (Se)	500	mg/kg	10	ND	-	-

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>	<u>021</u>	<u>022</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>023</u>	<u>024</u>	<u>025</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>	<u>028</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 010 is 38.7 mg, sample 011 is 47.5 mg, sample 012 is 22.5 mg, sample 017 is 55.4 mg, sample 022 is 32.4 mg, sample 023 is 16.4 mg, sample 024 is 50.4 mg, sample 028 is 21.1 mg.
- (3) As received, the test portion of samples 018-019 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions



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CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method : CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

Test Item(s)	Limit	Unit	MDL	001	007	010
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	011	012	017
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	018	019	023
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	024	028	
Lead (Pb)	0.009	%	0.002	ND	ND	
Conclusion				PASS	PASS	

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item(s)	Limit	Unit	MDL	003	004	005
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	006	009	016
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	021	022	025
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>	<u>027</u>
Lead (Pb)	0.01	%	0.002	ND	ND
Conclusion				PASS	PASS

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method : CPSC Test Method: CPSC-CH-E1001-08.3 `Standard Operating Procedure for Determining Total Lead (Pb) in Children`s Metal Products (Including Children`s Metal Jewelry)`.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

Remark:

The test results 001-028 are taken from report SHA20-041552.001-024,026-029.

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1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
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