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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 MARS MISSION LAUNCH SET/ MARS EXPLORATION SET

Sample Quantity 10 SET(S) Style / Item No. E3798/ E3799

Country of Origin **CHINA** Country of Destination **GLOBAL** 3-8 YEARS Labeled Age Grading Requested Age Grading 3Y-8Y

Client Reference Information E3798A/E3799A

Source of Sample SENT BY CLIENT.

Age Group Assessed as Per Age Guideline 3 YEARS+ Age Group Applied in Testing 3 YEARS+ Sample Receiving Date APR. 11, 2024

**Testing Period** APR. 11, 2024 TO APR. 28, 2024

<u>Test Requested</u>	Result
For compliance with the Australian/New Zealand Standard on Safety of toys:	
AS/NZS ISO 8124.1: 2023 – Safety of toys – Part 1: Safety aspects related to	Pass
mechanical and physical properties	
AS/NZS ISO 8124.2: 2023 – Safety Of Toys – Part 2: Flammability	Pass
Consumer Goods (Toys Containing Magnets) Safety Standards 2020	Pass
AS/NZS ISO 8124.3:2021+Amd 1:2023 - Migration of Certain Elements	Pass
COMMONWEALTH OF AUSTRALIA Trade Practices Act 1974, Consumer Protection	
Notice No. 1 of 2009-CONSUMER PRODUCT SAFETY STANDARD FOR LEAD AND	Pass
CERTAIN ELEMENTS IN CHILDREN'S TOYS	

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessie Zhou

**Authorized Signatory** 

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### Results:

# AS/NZS ISO 8124.1:2023- SAFETY OF TOYS - PART 1: SAFETY ASPECTS RELATED TO MECHANICAL **AND PHYSICAL PROPERTIES**

AS SPECIFIED IN AS/NZS ISO 8124.1:2023 - SAFETY OF TOYS - PART 1: SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	Result
4	Requirements	
4.1	General	<u>Pass</u>
4.2	Reasonably foreseeable abuse	<u>Pass</u>
4.3	MATERIAL	
	4.3.1 Material quality (Visual Examination)	<u>Pass</u>
4.4	SMALL PARTS	
	4.4.2 For children 36 months and over but under 72 months	<u>Pass</u>
4.6	<u>EDGES</u>	<u>Pass</u>
4.7	<u>POINTS</u>	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.10	Plastic film or plastic bags in packaging and in toys	<u>Pass</u>
4.12	Folding mechanism	
	4.12.3 Hinge-line clearance	<u>N/A</u>
	(Not applicable to products with a hinged part that has a mass less than 250g.)	
4.14	Springs	<u>Pass</u>
4.29	Acoustic requirements	<u>Pass</u>
4.31	Magnets and magnetic components	<u>Pass</u>
Annex B	Safety-labeling guidelines and manufacturer's markings	
B.2	Safety-labeling guidelines	
B.2.1	Good practice for visibility and legibility	See Remark
	Remark: The standard has introduced good practice by addressing the following aspects:  a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font and symbol size	
	f) Logical direction of text	



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B.2.3	Toys that are small parts, toys containing small parts and toys with removable	<u>Pass</u>
	small part components	
B.3	Instructional literature	
B.3.1	Information and Instructions	<u>Pass</u>
B.4	Manufacturer's Markings	Pass

N/A = Not Applicable

### AS/NZS ISO 8124.2: 2023 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN AS/NZS ISO 8124.2: 2023 - SAFETY OF TOYS - PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	Description	Result
4.1	General	Pass

Type of gas: Butane gas used in the test burner

**TEST REQUESTED** For compliance with the Consumer Goods (Toys Containing Magnets) Safety

Standards 2020

**TEST METHOD** With reference to clause 4.1 & 4.31 of AS/NZS ISO 8124.1:2019 with following

modification:

(a) clause 4.1, as modified by omitting the last 2 sentences of the clause;

(b) clause 4.31, as affected by the modifications of the subclauses referred to

in:

Subclauses 5.24.2, 5.24.5, 5.24.6.1, 5.24.6.2 and 5.24.7 of the

International Standard are modified by omitting the last sentence of each

subclause; and

Subclause 5.24.3 of the International Standard is modified by omitting

"before continuing to determine whether the toy continues to conform to the

relevant requirements of Clause 4 (requirements)".

**TEST RESULT** After performing the test, the sample comply with the requested test

requirements

## Consumer Goods (Toys Containing Magnets) Safety Standards 2020:

Section	Description	Result
Section 9	Australian/New Zealand Standard	Pass
4.1	Normal Use	Pass
4.31.2	All other toys with magnets and magnetic components	Pass

Remark:



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The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".

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

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0072393-0001.C001	Dark blue coating
SN2	A2	SHA24-0072393-0001.C002	Yellow coating
SN3	A3	SHA24-0072393-0001.C003	Black coating
SN4	A4	SHA24-0072393-0001.C004	White coating
SN5	A5	SHA24-0072393-0001.C005	Red coating
SN6	A6	SHA24-0072393-0001.C006	Orange coating
SN7	A7	SHA24-0072393-0001.C007	Blue coating
SN8	A8	SHA24-0072393-0001.C008	Silvery coating
SN9	A9	SHA24-0072393-0001.C009	Grey coating
SN10	A10	SHA24-0072393-0001.C010	Colorful coating
SN11	A11	SHA24-0072393-0001.C011	Colorful coating
SN12	A12	SHA24-0072393-0001.C012	Grey HDPE
SN13	A13	SHA24-0072393-0001.C013	Orange ABS
SN14	A14	SHA24-0072393-0001.C014	White ABS
SN15	A15	SHA24-0072393-0001.C015	Blue ABS
SN16	A16	SHA24-0072393-0001.C016	Yellow ABS
SN17	A17	SHA24-0072393-0001.C017	Grey ABS
SN18	A18	SHA24-0072393-0001.C018	Grey pp
SN19	A19	SHA24-0072393-0001.C019	Black plasic
SN20	A20	SHA24-0072393-0001.C020	Translucnet orange plastic wheel
SN21	A21	SHA24-0072393-0001.C021	Translucnet blue plastic
SN22	A22	SHA24-0072393-0001.C022	Translucnet green ABS
SN23	A23	SHA24-0072393-0001.C023	Translucnet orange ABS
SN24	A24	SHA24-0072393-0001.C024	Translucent plastic
SN25	A25	SHA24-0072393-0001.C025	Grey cord
SN26	A26	SHA24-0072393-0001.C026	Natural colored MDF
SN27	A27	SHA24-0072393-0001.C027	Natural colored solid wood

#### Remarks:

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

### AS/NZS ISO 8124.3:2021+Amd 1:2023 - Migration of Certain Elements



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Test Method: With reference to AS/NZS ISO 8124.3:2021+Amd 1:2023, analysis was performed by ICP-

OES.

Test Item(s)	Limit	Unit(s)	MDL	A1•	A2•	A3
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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A4•	A5•	A6
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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A7•	A8•	A9•
Soluble Lead (Pb)	90	mg/kg	5	-	-	-
Soluble Antimony (Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	-
Soluble Barium (Ba)	1000	mg/kg	10	-	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	-
Soluble Chromium (Cr)	60	mg/kg	5	-	-	-
Soluble Mercury (Hg)	60	mg/kg	5	-	-	-
Soluble Selenium (Se)	500	mg/kg	10	-	-	-
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A10•	A11•	A12
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



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Test Item(s)	Limit	Unit(s)	MDL	A10°	A11°	A12
Soluble Selenium (Se)	500	mg/kg	10	-	-	ND
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
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



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Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
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
Conclusion	Pass	Pass	Pass			

#### Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A3 is 24mg, sample A6 is 36.8mg, sample A14 is 73mg, sample A19 is 75.1mg, sample A25 is 37.7mg.
- (3) •As received, the test portion is less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the AS/NZS ISO 8124.3:2021+Amd 1:2023.

### COMMONWEALTH OF AUSTRALIA Trade Practices Act 1974, Consumer Protection Notice No. 1 of 2009-CONSUMER PRODUCT SAFETY STANDARD FOR LEAD AND CERTAIN ELEMENTS IN CHILDREN'S TOYS

Test Method: With reference to AS/NZS ISO 8124.3:2003, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1•	A2•	A3
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	10.0	-	-	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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A4•	A5•	A6
Soluble Lead(Pb)	90	mg/kg	5	-	-	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4*	A5*	A6
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	ND
Soluble Barium(Ba)	1000	mg/kg	10.0	-	-	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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7•	A8•	A9•
Soluble Lead(Pb)	90	mg/kg	5	-	-	-
Soluble Antimony(Sb)	60	mg/kg	5	-	-	-
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	-
Soluble Barium(Ba)	1000	mg/kg	10.0	-	-	-
Soluble Cadmium(Cd)	75	mg/kg	5	-	-	-
Soluble Chromium(Cr)	60	mg/kg	5	-	-	-
Soluble Mercury(Hg)	60	mg/kg	5	-	-	-
Soluble Selenium(Se)	500	mg/kg	10	-	-	-
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A10•	A11•	A12
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	10.0	-	-	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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
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	10.0	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
Conclusion	Pass	Pass	Pass			

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Lead(Pb)	90	ma/ka	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
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	10.0	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
Conclusion			Pass	Pass	Pass	

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
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	10.0	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
Conclusion			Pass	Pass	Pass	

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
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	10.0	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
Conclusion			Pass	Pass	Pass	

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
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	10.0	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
Conclusion			Pass	Pass	Pass	

### Notes:



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- (1) Results of soluble elements shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A3 is 24mg, sample A6 is 36.8mg, sample A14 is 73mg, sample A19 is 75.1mg, sample A25 is 37.7mg.
- (3) •As received, the test portion are less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the AS/NZS ISO 8124.3:2003 Clause 7-selection of test portions.

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.

#### Remark:

- 3. 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.
- 4. The declaration of conformity is based on acceptance limits chosen based on simple acceptance (w = 0, AL = TL).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

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