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American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH0212168402

Applicant: NEAT-OH! INTERNATIONAL, LLC
790 FRONTAGE ROAD SUITE 303
NORTHFIELD
IL 60093
USA
Attn: ALEX YIU

Date: May 18, 2017

Submitted sample said to be :
Item Name : (1) Thomas & Friends™ Magnutto® Magnetic Sodor Steam Works
(2) Magnutto® The Mood Match™ Game
Item No. : (1) A2204XX
(2) A2289XX
Quantity : 4 sets
Labelled Age Group : 3+
Packaging Provided : Yes
Country of Origin : China



For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. ASTM F963-16 - Physical and Mechanical tests	Pass
(2) ASTM F963-16 - Flammability Test of Materials other than textile materials	Pass
(3) ASTM F963-16 - Soluble heavy elements test	Pass
(4) ASTM F963-16 - Total Lead content	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Not Applicable
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Not Applicable
(7) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(8) Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 - Tracking labels for children products	Pass
(9) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass
(10) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass
(11) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	Pass





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(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-16

Age group for testing : For Ages Over 3 Years

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -		
<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4.1	Material quality	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months - Small part warning	P
4.7	Accessible edges	P
4.8	Projection	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (96 months of age or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA





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Clause	Requirement	Assessment
4.36	Hemispherical shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labeling requirements	P
6	Instructional literature	P
7	Producer's marking	
	- Name of producer / distributor	Yes
	- Address	Yes

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Date sample received : Apr 27, 2017 and May 15, 2017

Test Period : Apr 27, 2017 to May 17, 2017

(2) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Result: Ignited but self-extinguished before burn rate could be determined.

Date sample received : Apr 27, 2017

Test Period : Apr 27, 2017 to May 05, 2017



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(3) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

ppm = parts per million = mg/kg

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017

Test Period : Apr 27, 2017 to May 03, 2017



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(4) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16, CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Substrate:

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	100
(4/5/6)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 03, 2017

(5) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	100
(4/5/6)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 03, 2017



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(6) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Assessment : Since no scrapable surface coating was found on the submitted samples, the testing scope of CPSIA for total Lead content test was not applicable to the submitted samples.

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 03, 2017

(7) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compounds	Result (% w/w)		Limit (% w/w)
	(1/2/3)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 04, 2017



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(8) Tracking Label Assessment

Test Standard : Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 tracking labels for children products.

Tracking label found on the packaging:

For item A2204XX
15032017
NEAT-OH! INTERNATIONAL, LLC

For item A2289XX
Neat-Oh!
Made in Shenzhen, China
20170430

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

Date sample received : Apr 27, 2017 and May 15, 2017
Test Period : Apr 27, 2017 to May 16, 2017

(9) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.002	0.010
(4/5/6)	<0.002	0.010

Warning statement limit for coating = 0.004%

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 03, 2017



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(10) Total Lead (Pb) content

Test Method : Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.002	0.010
(4/5/6)	<0.002	0.010

The above limit was quoted from the Consent Judgement no. RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017

Test Period : Apr 27, 2017 to May 03, 2017



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(11) Phthalate Content Test

Test Method : Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% w/w)		Limit (% w/w)
	(1/2/3)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--

The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) set based on the California Proposition 65.

Tested Components:

- (1) Paper card with plastic film (learning card of all styles).
- (2) Paper sheet with plastic film (box of Thomas style).
- (3) Paper board with plastic film (box of Magnutto style).
- (4) Paper sheet with plastic film (face of magnet).
- (5) Black plastic (magnet of all styles).
- (6) White foam (middle layer of magnet of Magnutto style).

Date sample received : Apr 27, 2017
Test Period : Apr 27, 2017 to May 04, 2017

End of report

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