



TEST REPORT

Reference No.	: ,	WTF20F09065697C
Applicant	N:TE	Mid Ocean Brands B.V.
Address		7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong 104901
Sample Name	:	Aluminium ball pen set
Model No.	:-21	MO7323
Test Requested	NNUS LITEX EX	 Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628 Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217 Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)
Test Method	-sur	Please refer to next page (s)
Test Conclusion	IN ^{LL}	Please refer to next page (s)
Date of Receipt sample	.et	2020-09-11
Date of Test	:	2020-09-11 to 2020-09-30
Date of Issue	*	2020-09-30
Test Result	:	Please refer to next page (s)
Note	in i	As specified by client, only test the designated sample.
Test Conclusion Date of Receipt sample Date of Test Date of Issue Test Result	JALI TEX M	Please refer to next page (s) Please refer to next page (s) 2020-09-11 2020-09-11 to 2020-09-30 2020-09-30 Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Test Result:

1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Test Item	LOQ	Su vi	Limit V		
	(mg/kg)	No.1+No.3 +No.11	No.2+No.13	No.4	(mg/kg)
Lead(Pb)	2	ND*	ND*	ND	500
Conclusion	mr. m	Pass	Pass	Pass	JITER -NITE

Test Item	LOQ	let let	Limit		
	(mg/kg)	No.5	No.6+No.10 +No.14	No.7+No.8	(mg/kg)
Lead(Pb)	<u>s</u> t 25 th	ND ND	ND*	ND*	500
Conclusion	<u></u>	Pass	Pass	Pass	Mur -on

Test Item	LÓQ	Results (mg/kg)					
	(mg/kg)	No.9	No.12	No.15	(mg/kg)		
Lead(Pb)	<u></u> 2	ND ND	ND	ND	500		
Conclusion	z zu	Pass	Pass	Pass	m- in		

Taatiliam	LOQ	Results (mg/kg)	Limit
Test Item (mg/kg)	No.16+No.17	No.18	(mg/kg)	
Lead(Pb)	- 2	ND*	ND	500
Conclusion	- JUN - SUV	Pass	Pass	nere white w

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "*" = Results are calculated by the minimum weight of mixed components.



2) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Tool Home	LOQ	Results (n	ng/kg)
Test Item	(mg/kg)	No.1+No.3+No.11	No.2+No.13
Cadmium(Cd)	2	ND*	ND*-
Conclusion		Pass S	Pass

Test Item	LOQ	LOQ Results (mg/kg)					
	(mg/kg)	No.7+No.8	No.9	No.12			
Cadmium(Cd)	J = 2 J	ND*	ND	ND			
Conclusion		Pass	Pass	Pass			

Toolling At	LOQ	Resul	ts (mg/kg)
Test Item	(mg/kg)	No.15	No.16+No.17
Cadmium(Cd)	2	I MALINDAN	ND*
Conclusion		Pass	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

(5) "*" = Results are calculated by the minimum weight of mixed components.



3) Nickel release

Test method: With reference BS EN 12472:2005+A1:2009&BS EN1811:2011+A1:2015, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

Item No.	Sample Area (cm ²)	Volume of Test	TEX INT		release 1²/week)	NUTER WALT	Conclusion
et set	Area (cm)	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	TEX UTE
No.4	6.51	10	of ND of	ND	ND	ND	Pass
No.12	61.34	50	ND	ND	Set ND Set	ND	Pass

Note:

- (1) $\mu g/cm^2/week = microgram per square centimetre per week$
- (2) Limit of quantitation = $0.05 \,\mu g/cm^2/week$
- (3) ND = Not detected or less than the value of Limit of quantitation
- (4) Interpretation of test results:

The second and the second and the	Nickel Release(µg/cm²/week)				
Type of sample	Pass	Fail			
Other components in direct and prolonged contact with the skin	<0.88	≥0.88			
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	≥0.35			

(5) The testing standard "BS EN 12472:2005+A1:2009" does not been accredited by CNAS

Test Specimen Description:

No.1: White plastic cap with silvery plating No.2: Grey-white plastic end No.3: White plastic cap with black coating No.4: Silvery metal clip No.5: Black pencil lead No.6: Silvery metal spring No.7: White plastic point No.8: Semi-transparent plastic tube No.9: Dark grey plastic tube No.10: Silvery metal spring No.11: White plastic tube with silvery plating No.12: Silvery metal tube with black coating No.13: White plastic end No.14: Silvery metal spring No.15: Blue ink No.16: White plastic refill No.17: White plastic end No.18: Silvery metal shell with black coating

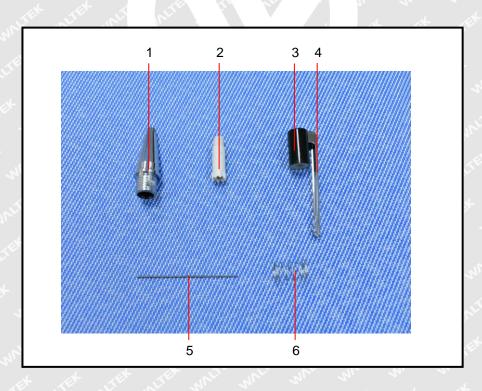
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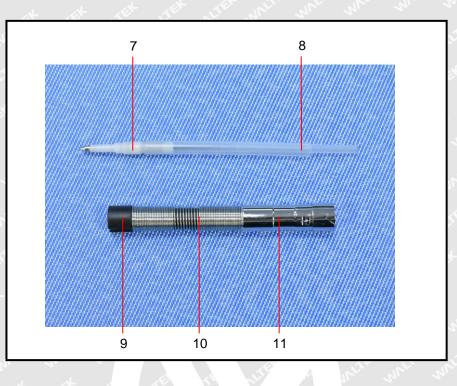
Sample photo:

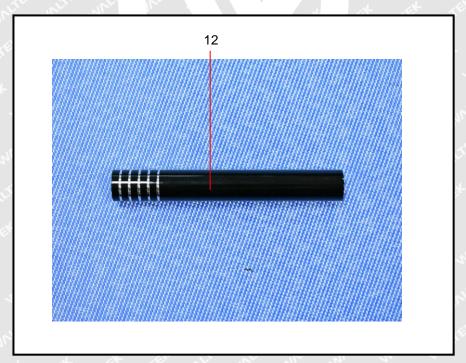


Photographs of parts tested:



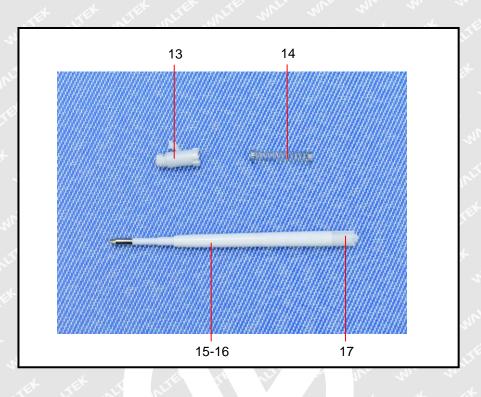


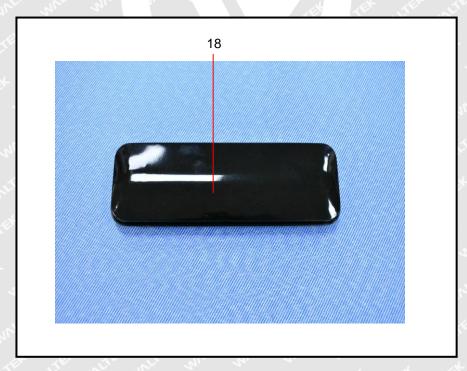




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===== End of Report ======

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