



# TEST REPORT

Report No.: STSGZ2203143132E

Date: 22-Mar-2022

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**Applicant :** Mid Ocean Brands B.V.

**Address:** 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

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

**Sample Name:** Target nautical compass

**Model/Style/Item #:** AR1249

**Receiving Date:** 14-Mar-2022

**Test Period:** From 14-Mar-2022 to 22-Mar-2022

**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006	EN 12472:2020+A1:2009&EN 1811:2011+A1: 2015, determined by ICP-OES	PASS
3	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
4	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS

\*\*\*\*\*

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

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## Result:

### 1. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		2	6+9	7+8		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 2. Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 12472:2020+A1:2009&EN 1811:2011+A1: 2015, determined by ICP-OES

Compound	Material			Limit ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	RL ( $\mu\text{g}/\text{cm}^2/\text{week}$ )
	1				
	A	B	C		
Sample area ( $\text{cm}^2$ )	280	240	240	-	-
Volume of Test Solution ( ml)	500	250	250	-	-
Result	N.D.	N.D.	N.D.	#	0.05
Conclusion	PASS			-	-

Compound	Material			Limit ( $\mu\text{g}/\text{cm}^2/\text{week}$ )	RL ( $\mu\text{g}/\text{cm}^2/\text{week}$ )
	3				
	A	B	C		
Sample area ( $\text{cm}^2$ )	80	80	80	-	-
Volume of Test Solution ( ml )	100	100	100	-	-
Result	N.D.	N.D.	N.D.	#	0.05
Conclusion	PASS			-	-

Remark(s): (a)  $\mu\text{g}/\text{cm}^2/\text{week}$ : microgram per square centimeter per week  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)  
#: 1. Inserted into pierced parts of the human body Limit:  $0.35\mu\text{g}/\text{cm}^2/\text{week}$

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2.Come into direct and prolonged contact with the skin Limit: 0.88µg/cm<sup>2</sup>/week

### 3. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1+3+4	2	5	6		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

### 4. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Material			Limit (%)	RL (%)
			2	6+9	7+8		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
	<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

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## Material List:

Material #	Position / Sample Description
1	Silvery metal, shell
2	Black foam
3	Silvery metal, shell
4	Silvery metal, base
5	Transparent glass
6	Black plastic adhesive tape
7	Green coating, pointer
8	White coating, scale
9	Black plastic sheet

Remark(s): The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

## Photo(s):



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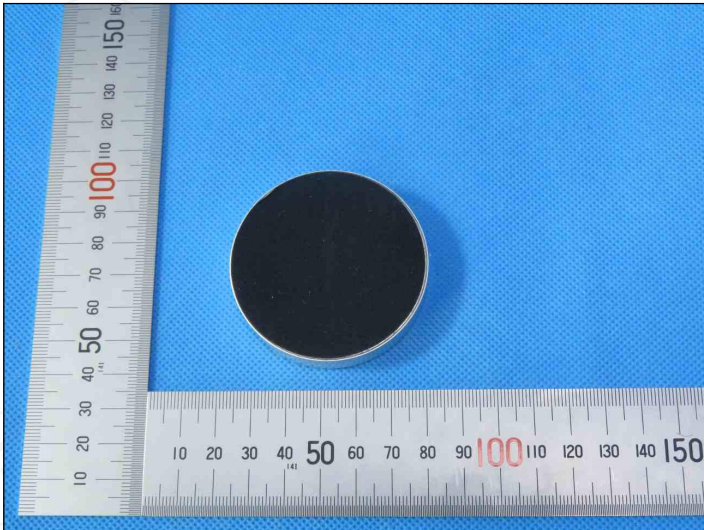


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Product Photo

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