

# TEST REPORT



REPORT NO. : HV-19-00692  
PAGE : 1 OF 4  
REPORT DATE : Mar. 04, 2019

## NANO4LIFE EUROPE L.P.

Product Name: NANODIAMOND4-CARPAINT  
Product Type: ANTISCRTCH COATING  
Product Color: TRANSPARENT  
Manufacturer: NANO4LIFE EUROPE L.P.  
Supplier: NANO4LIFE EUROPE L.P.  
Buyer/Order No. : 10011901  
Product Submitted By: NANO4LIFE EUROPE L.P.  
Date of Receive: FEBRUARY 12, 2019  
Date of Testing: FEBRUARY 12, 2019 ~ MARCH 04, 2019  
Remark:

1. The information mentioned in the above section is provided by Client (Exclude Date of Sample Received and Date of Testing)
2. The following report content marks # is provided by Client

=====  
The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

Test Required :

1. Alkali Resistance
2. Acid Resistance
3. Salt-Water Resistance
4. Heavy Metal Analysis

Test Method : Please see attached sheets

Test Result : Please see attached sheets

----- 1 -----

The value of required specifications are for reference only.  
Conformity judgement is the Applicant's final verdict.

**Signed for and on behalf of  
SGS Taiwan Ltd.**

## TEST REPORT



REPORT NO. : HV-19-00692

PAGE : 2 OF 4

REPORT DATE : Mar. 04, 2019

### 1. Alkali Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent : 5% Na<sub>2</sub>CO<sub>3</sub>

Test Temperature : 23°C

Test Time : 24 hours

Test Result :

Test Item(s)	Test Result(s)
Alkali Resistance	There is no abnormality even immersed in Alkali.

### 2. Acid Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent : 5% H<sub>2</sub>SO<sub>4</sub>

Test Temperature : 23°C

Test Time : 24 hours

Test Result :

Test Item(s)	Test Result(s)
Acid Resistance	There is no abnormality even immersed in Acid.

----- 2 -----

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## TEST REPORT



REPORT NO. : HV-19-00692

PAGE : 3 OF 4

REPORT DATE : Mar. 04, 2019

### 3. Salt-Water Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent :

5% NaCl solution

Test Temperature :

23°C

Test Time :

96 hours

Test Result :

Test Item(s)	Test Result(s)
Salt-Water Resistance	There is no abnormality even immersed in sodium chloride solution.

### 4. Heavy Metal Analysis

Test Result :

Test Item(s)	Unit	Method	MDL	Result
				No.1
Lead(Pb)	mg/kg	With reference to CPSC-CH-E1003-09.1 (2011). Analysis was performed by ICP-AES.	2	n.d.
Soluble Arsenic (As)	mg/kg	With reference to ASTM F963(2017) Clause 8.3. Analysis was performed by ICP-AES.	2.5	n.d.
Soluble Barium (Ba)	mg/kg		10	n.d.
Soluble Cadmium (Cd)	mg/kg		5	n.d.
Soluble Chromium (Cr)	mg/kg		5	n.d.
Soluble Mercury (Hg)	mg/kg		5	n.d.
Soluble Lead (Pb)	mg/kg		5	n.d.
Soluble Antimony (Sb)	mg/kg		5	n.d.
Soluble Selenium (Se)	mg/kg		5	n.d.
Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm 2. n.d. = Not Detected 3. MDL = Method Detection Limit				

----- 3 -----

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## TEST REPORT

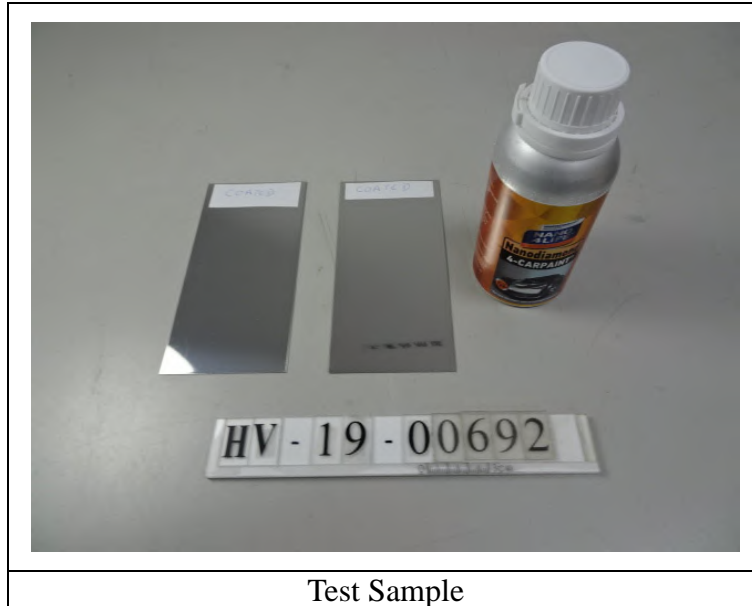


REPORT NO. : HV-19-00692

PAGE : 4 OF 4

REPORT DATE : Mar. 04, 2019

Sample Photo :



Test Sample

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