



TEST REPORT

- 1. NO : CT23-046190E
- 2. Client
 - Name : W-ENG
 - Address : Office 12F/Factory 11F, #A, Central Biz Tower 2nd. 99, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13201
- 3. Date of Test : 2023.05.15 ~ 2023.05.30
- 4. Use of Report : Quality control
- 5. Test Sample : Nano Inorganic(Fine Coat) Coated Steel Sheet
- 6. Test Method
 - (1) KS M ISO 2812-1:2007
 - (2) KS M ISO 2409:2013
 - (3) Method requested by the client
 - (4) KS M ISO 15184:2012



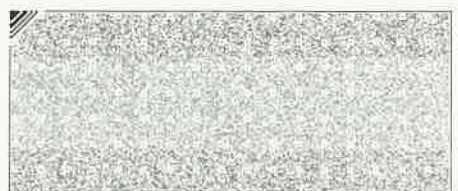
Affirmation	Tested By Name : Gyu Hwan Park	박규환	Technical Manager Name : Ho Young Kim	K.H.Y.
This report is not accredited by KOLAS and KS Q ISO/IEC 17025. Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products. The results of using only a portion of this report cannot be guaranteed. The authenticity of this test report can be checked on KCL website(www.kcl.re.kr).				

2023.05.30

Korea Conformity Laboratories

President Jo, Yung Tae

Result Inquiry : 85, Dambang-ro, Namdong-gu, Incheon, Korea (82-32-728-5563)



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7. Test Results

1) Nano Inorganic(Fine Coat) Coated Steel Sheet

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 1 h)	-	(1)	No defect		A
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 8 h)	-	(1)	No defect		
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 24 h)	-	(1)	No defect		
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 100 h)	-	(1)	No defect		
Cross-cut test	-	(2)	No defect		
Pollution resistance	-	(3)	No defect		
Pencil hardness	-	(4)	9H		

2) Nano Inorganic(Fine Coat) Coated Steel Sheet(Non coating)

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 1 h)	-	(1)	Visible discoloration		A
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 8 h)	-	(1)	Visible discoloration		
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 24 h)	-	(1)	Visible discoloration		
Appearance after liquid resistance(23±2 °C, acid resistance, 5 % hydrochloric acid, 100 h)	-	(1)	Visible discoloration		

▶ Method requested by the client(Pollution resistance) :

Apply black oil-based marker to the surface of the sample, leave it for 1 minute, pour distilled water on the oil-based marker part, and determine whether or not the oil-based marker is removed after 30 seconds.

※ Location

A : 85, Dambang-ro, Namdong-gu, Incheon, Korea



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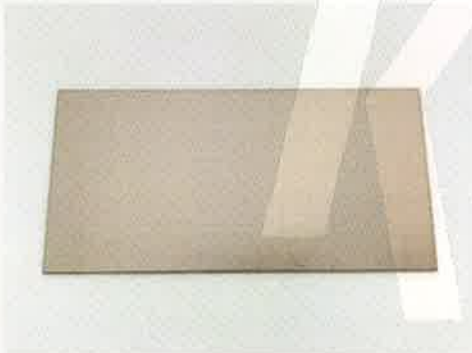
○ Nano Inorganic(Fine Coat) Coated Steel Sheet



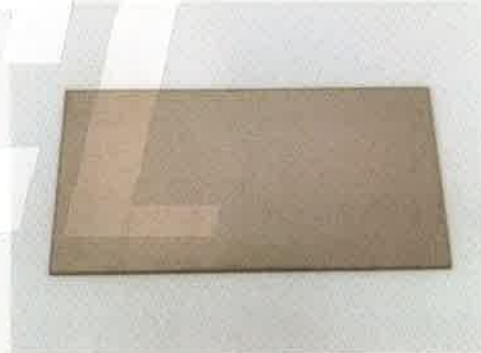
Before acid resistance test



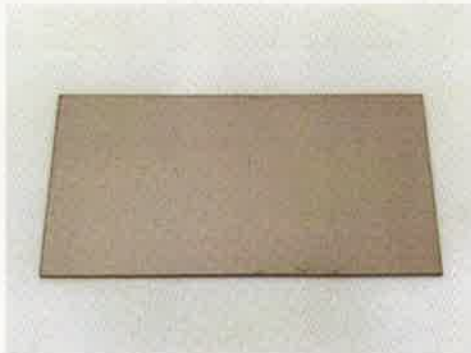
After acid resistance test (1 h)



After acid resistance test (8 h)



After acid resistance test (24 h)



After acid resistance test (100 h)



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○ **Nano Inorganic(Fine Coat) Coated Steel Sheet(Non coating)**



Before acid resistance test



After acid resistance test (1 h)



After acid resistance test (8 h)



After acid resistance test (24 h)



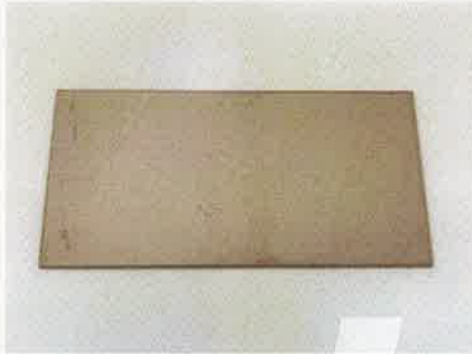
After acid resistance test (100 h)



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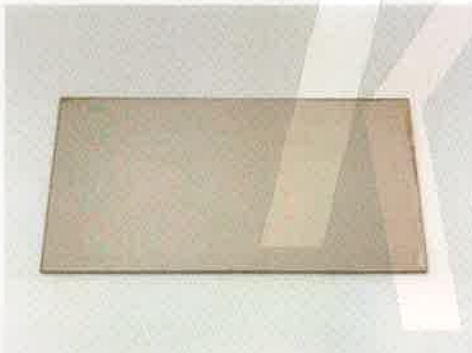
○ Nano Inorganic(Fine Coat) Coated Steel Sheet



Before cross-cut test



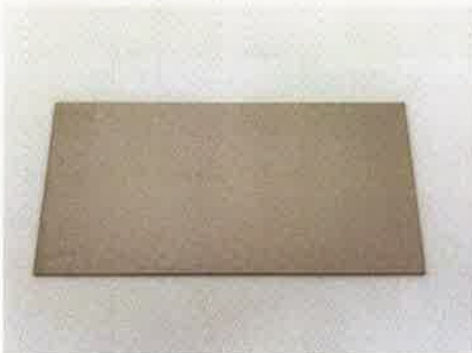
After cross-cut test



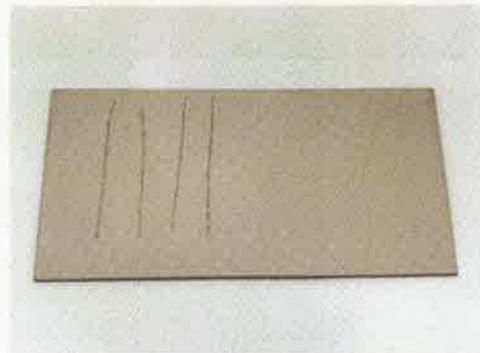
Before pollution resistance test



After pollution resistance test



Before Pencil hardness test



After Pencil hardness test

—— End of Report ——

