

DUST TEST REPORT

Company : Apacer Technology Inc.
Address : 3F, No. 83, Sec 2, Kur Wong Rd. Aspire Park. Lung Tan Hsiang,
Tao Yuan Hsien, Taiwan, R.O.C.
Product Name : Industrial microSD
Date Received : JUN 08, 2012
Date Tested : JUN 08, 2012 ~ JUN 09, 2012

TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-090819

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Gin Lu	<i>Gin Lu</i>	<i>Aug 10, 2012</i>
Manager	General Lee	<i>General</i>	<i>Aug 10, 2012</i>

NOTE :

1. This report will be invalid if reproduced in part or altered in any way.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used otherwise.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.



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1. GENERAL INFORMATION

1.1 DESCRIPTION OF UNIT

Manufacturer : Apacer Technology Inc.

Product name : Industrial microSD

Model no. : AP-MSD01GISI-xT, AP-MSD02GISI-xT

Sample quantity : Each 3 units / model no., total of 6 units

1.2 UNIT OPERATING CONDITION:

None

2. DUST TEST

2.1 TEST EQUIPMENT

Model	Serial Number	Calibration Date
Vötsch- VDT 1000A	59566059640010	DEC 15, 2011

2.2 LABORATORY AMBIENCE CONDITION

Temperature : 23±3°C

Relative humidity : 55%±3% (RH)

2.3 REFERENCE DOCUMENT

This test method refers to IEC 60529 IP5X Dust Test Protected.

2.4 TEST CONDITION

Units are non-operating.

Dust material : Talcum powder (100% dry fine)

Particle size	Amount (%)
< 5 µm (Diameter)	42.31%±5
5~10 µm (Diameter)	35.85%±5
10~20 µm (Diameter)	21.15%±5
20~40 µm (Diameter)	0.69%±5
> 40 µm (Diameter)	0%

Amount of talcum powder : 2 kg/m³ (chamber volume)

Dust density : 2.03 g/cm³

Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 8 hours

2.5 SUMMARY OF TEST

After testing, visual inspection showed no physical defect on unit.

The function test will be performed by Aptos Technology, without the 3rd party lab (IST) person participation.

To follow customer's requirement, attached functional test result as below:

Inspection item	Functional test result
AP-MSD01GISI-xT, AP-MSD02GISI-xT	Pass

Attachment 1 : Photo of units

AP-MSD01GISI-xT



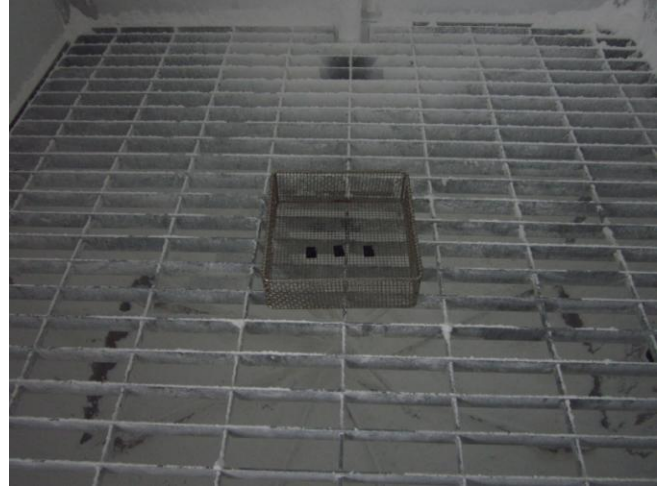
AP-MSD02GISI-xT



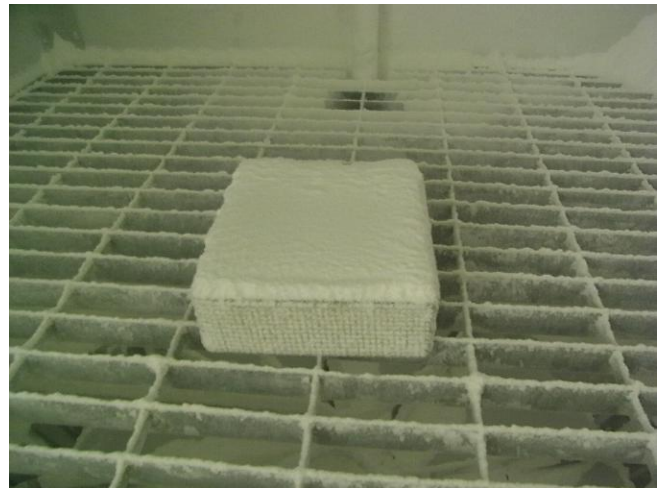
Attachment 2 : Photo of dust test setup

AP-MSD01GISI-xT

Before test

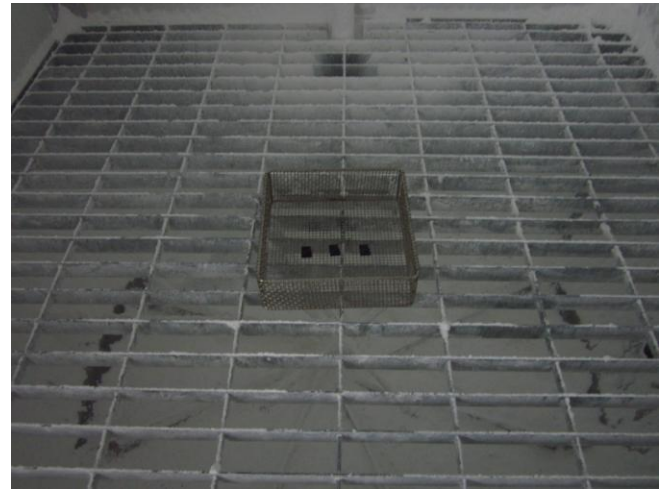


After test



AP-MSD02GISI-xT

Before test



After test

