

Test report

No. 204070398-002

4 April, 2005

Applicant Mitsubishi Paper Mills, Ltd.

Specimen Aller Sweep

Title Mold resistibility test

The result of the test to the specimen above is as follows on 8 February, 2005.

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*If you publish this report, please get our approval in advance.

Mold resistibility test

1. Applicant

Mitsubishi Paper Mills, Ltd.

2. Specimen

Aller Sweep

3. The purpose of the test

To investigate the mold resistibility test against the specimen.

4. Test outline

Cut the specimen in a proper size as a sample. The mold resistibility test conducted with reference to JIS Z 2911: 2000 「The method of the mold resistibility test」 7. Fabric test b)Dry method.

5. The result of the test

Figure-1 shows the result and Figure-2 shows the standard of the result. Also, Picture-1 shows a part of the sample 28 days after the culture.

Figure-1 the result of mold resistibility test to the sample*

The condition of mold in the sample			
7 days later	14 days later	21 days later	28 days later
0	0	0	0

*referred figure-2

Figure-2 the method of indicating the result of test

Mycelial growth	Mold resistibility
Unrecognizable mycelial growth	0
Recognize mold growing less than one third of total area of the sample and test equipment	1
Recognize mold growing more than one third of total area of the sample and test equipment	2

6. Test method

(1) Test strain

Aspergillus niger IFO 6341

Penicillium cilrinum IFO 6352

Chaetomium globosum IFO 6347

Myrothecium verrucaria IFO 6113

(2) Preparation of mixed spore suspension

After culturing the test bacteria in potato dextrose agar (Eiken Chemical Co., Ltd.) for 7 days at 25°C ($\pm 1^\circ\text{C}$), suspends five inoculation loops of spores in 10ml of 50mg/l Sulfosuccinic Acid Bis(2-ethylhexyl) Ester Sodium Salt as one-spore suspension.

The same amount of each spore suspension are mixed to obtain a mixed-spore suspension.

(3) Preparation of spore catalytic support

A porcelain fired and shaken plate having a diameter of approximately 12mm which was sterilized by dry heat is soaked in the mixed spore suspension and then dried to obtain a catalytic support.

(4) Preparation of sample

Cut the specimen into a size 50*50 cm as a sample.

(5) Test method

The sample is placed in a plastic petri dish. A catalytic support is put in the center of the sample, and a glass plate sterilized by dry heat is put on the lid, covered the sample. They are cultured at 28°C ($\pm 2^\circ\text{C}$) for 28 days in a desiccator with saturated ammonium hydrogen phosphate solution about 5% of the internal volume. Then, observe the growth of mold on the surface of the sample every 7 days of culture.